

MAULES CREEK COAL MINE - MONTHLY MONITORING SUMMARY

Site Information

EPL No: 20221

EPA Website Link: <u>Hyperlink to Maules Creek Coal, Environment Protection Licence</u>

Licensee: Maules Creek Coal Mine Pty Ltd

Licensee Address: Maules Creek Coal Mine, Therribri Road, BOGGABRI NSW 2382

EPL Monitoring Points: See Figure 1 below

Sampling Period: January 2023 Obtained Date: 15th February 2023 Publication Date: 21st February 2023

Context: This Monthly Monitoring Summary aligns with the Environment Protection Licence (EPL) No. 20221 – Maules Creek Coal Mine issued 2nd August 2022 by the NSW Environment Protection Authority (EPA).



Monthly Monitoring Summary

Ground Water Monitoring

Table 1 - Groundwater Quality Monitoring

ID EPL (Bore)	Parameters	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value		
	pH	рН									
15 (BCM01)	Conductivity	μs/cm	Quarterly								
(BCIVIOI)	TDS	mg/L									
	рH	рН									
16 (BCM03)	Conductivity	μs/cm	Quarterly								
(BCIVIOS)	TDS	mg/L									
	рH	рН				Next sampl	e in March 2023				
17 (REG10A)	Conductivity	μs/cm	Quarterly								
(REGIOA)	TDS	mg/L	1								
	рH	pН									
24 (DDOFA)	Conductivity	μs/cm	Quarterly								
(RB05A)	TDS	mg/L	Ī Ì								



Surface Water Monitoring

Table 2 - Surface Water Monitoring - Mine Void

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value
	TSS	mg/L				-			
12	Conductivity	μs/cm	Every 2			Nove Compute in Folymon	2022		
(Mine Void)	Oil & Grease	mg/L	months			Next Sample in Februar	y 2023		
	рH	pН							

Table 3 - Wet Weather Discharge - Surface Water Monitoring

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value		
	Conductivity	μs/cm										
	Nitrate	mg/L	Consist									
	Nitrogen (total)	mg/L	Special									
3	Oil & Grease	mg/L	Frequency 1 - within 12									
(SD3)	pН	рН	hours of									
(3D3)	Phosphorous	mg/L										
	Reactive Phosphorous	mg/L	discharge from EPL 3 or 36.									
	TSS	mg/L	-									
	Conductivity	μs/cm			No discharge occurred from this monitoring location during January 2023							
	Nitrate	mg/L]									
	Nitrogen (total)	mg/L	Special									
	Oil & Grease	mg/L	Frequency 1 -									
36	рН	рН	within 12									
(SD12)	Phosphorous	mg/L	hours of									
	Reactive Phosphorous	mg/L	discharge from EPL 3 or 36									
	TSS	mg/L	1									
	Conductivity	μs/cm										



Table 4 - Clean Water Discharge - Surface Water Monitoring

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value	
	Conductivity	μs/cm								-	
	Nitrate	mg/L									
	Nitrogen (total)	mg/L									
	Oil & Grease	mg/L									
	pH	pН									
	Phosphorous	mg/L	Special								
38	Reactive Phosphorous	mg/L	Frequency 3 - within 12								
(Flow Meter	TSS	mg/L	hours of								
Upstream)	Conductivity	μs/cm	discharge								
	Nitrate	mg/L	from any								
	Nitrogen (total)	mg/L	discharge								
	Oil & Grease	mg/L	location.								
	pН	рН									
	Phosphorous	mg/L									
	Reactive Phosphorous	mg/L									
	TSS	mg/L		No discharge occurred from this monitoring location during January 2023							
	Conductivity	μs/cm									
	Nitrate	mg/L									
	Nitrogen (total)	mg/L									
	Oil & Grease	mg/L									
	pH	рН	Special								
	Phosphorous	mg/L	Frequency 3 -								
39	Reactive Phosphorous	mg/L	within 12 hours of								
(Flow Meter	TSS	mg/L	discharge								
downstream)	Conductivity	μs/cm	from any								
	Nitrate	mg/L	discharge								
	Nitrogen (total)	mg/L	location.								
	Oil & Grease	mg/L	_								
	pH	pH	_								
	Phosphorous	mg/L	_								
	Reactive Phosphorous	mg/L									

	TSS	mg/L	
	TSS	mg/L	Special
I	133	IIIg/L	Frequency 2
I	Conductivity	μs/cm	– prior to
1	Conductivity	με/τιπ	discharging from EPL 45
	Oil & Grease	mg/L	and/or 46 or
40	Oil & Grease	IIIg/ L	within
(HWD8)			12hours of
			discharge
	nU.	nU	caused by
	рН	pH	38.4mm in a 5 Day
			consecutive
			period
			i i
	TSS	mg/L	
	Camaluativitu	/****	Special
	Conductivity	μs/cm	Frequency 2 – prior to
	Oil & Grease	mg/L	discharging
	Oil & Grease	IIIg/ L	from EPL 45
	рН	pН	and/or 46 or
41	p	P	within
(HWD9)	TSS	mg/L	12hours of discharge
		3,	caused by
	Conductivity	μs/cm	38.4mm in a
			5 Day
	Oil & Grease	mg/L	consecutive
			period
	pН	рH	
			Constitution
	TSS	mg/L	Special Frequency 2
42		,	– prior to
(HWD10)	Conductivity	μs/cm	discharging
Ì	Oil 9 Carrer	/I	from EPL 45
	Oil & Grease	mg/L	and/or 46 or

	рН	рН	within 12hours of discharge caused by 38.4mm in a 5 Day consecutive period
	TSS Conductivity	mg/L μs/cm	Special Frequency 2
43	Oil & Grease	mg/L pH	- prior to discharging from EPL 45 and/or 46 or within
(HWD11)	TSS	mg/L μs/cm	12hours of discharge caused by 38.4mm in a
	Oil & Grease	mg/L	5 Day consecutive period
	рН	рН	
	TSS	mg/L	Special Frequency 2
	Conductivity	μs/cm	– prior todischarging
44	Oil & Grease	mg/L	from EPL 45 and/or 46 or
(WCWD)	рН	рН	within 12hours of
	TSS	mg/L	discharge caused by 38.4mm in a
	Conductivity	μs/cm	5 Day



	Oil & Grease	mg/L	consecutive period
	рН	рН	
	Oil & Grease	mg/L	
	рН	рН	not more
45	TSS	mg/L	than 12 hours after
(ECWDP)	Oil & Grease	mg/L	discharge
	рН	рН	commences
	TSS	mg/L	
	Oil & Grease	mg/L	
	рН	рН	not more
46	TSS	mg/L	than 12 hours after
(WCWDP)	Oil & Grease	mg/L	discharge
	рН	mg/L	commences
	TSS	рН	



Noise Monitoring

Table 6 - Noise Monitoring (Attended - Measured)

MCC ID	Date	Start Time	Wind Speed (m/s)	MCCP LAeq _{15min} dB	Limit L _{Aeq} _{15min} (dB) Operations Criteria	MCCP LAeq _{1min} dB	Limit L _{A1 (1 min)} (dB) Operations Criteria	Weather Rain (mm)	Exceedance (Yes / No)
NM1	18/01/2023	22:30	0.4	IA	35	IA	45	0.0	NA
NM2	18/01/2023	23:30	0.4	IA	39	IA	45	0.0	NA
NM3	18/01/2023	23:26	0.3	IA	35	IA	45	0.0	NA
NM4	18/01/2023	23:00	0.4	IA	35	IA	45	0.0	NA
NM5	18/01/2023	22:00	0.4	<25	35	25	45	0.0	NA
NM6	18/01/2023	23:59	0.4	IA	35	IA	45	0.0	NA

MCC ID = Locations as per the EPL No.20221.

ND = No data due to high prevailing winds during the attended noise monitoring event.

Italicised text indicates wind speed exceeds the 3.0m/s maximum for noise monitoring.

NM = Not Measurable. If site noise is noted as NM, <20 dB or <30 dB, this means some noise was audible but could not be quantified.

IA = Site noise was inaudible at the monitoring location.

N/A in exceedance column means criterion was not applicable due to atmospheric conditions outside those specified in the project approval.

Table 7 - Noise Monitoring (Attended - Low Frequency Assessment)

None of the measurements satisfied the conditions for further assessment when assessed for the applicability of low frequency modification factors in accordance with the EPA's Noise Policy for Industry. Therefore, no further assessment of low frequency noise was required to be undertaken.



Blast Monitoring

Table 8 - Blast Monitoring (Blasts - Limits Apply)

Location	Parameter	Units	Frequency	Number	Average	Max	100% Limit	Exceedance (Yes / No)
Operations	Overpressure	Db (Lin Peak)		10	95.6	114.9	120	No
Blasts	Vibration	mm/s	All	10	0.16	0.81	10	No

Note: As of March 2018, in accordance with the requirements of the approved variation of EPL 20221; M7.1 blast monitoring results are for four blast monitoring points 31 (BM1), 32 (BM2), 33 (BM3) and 34 (BM4).



Air Quality Monitoring

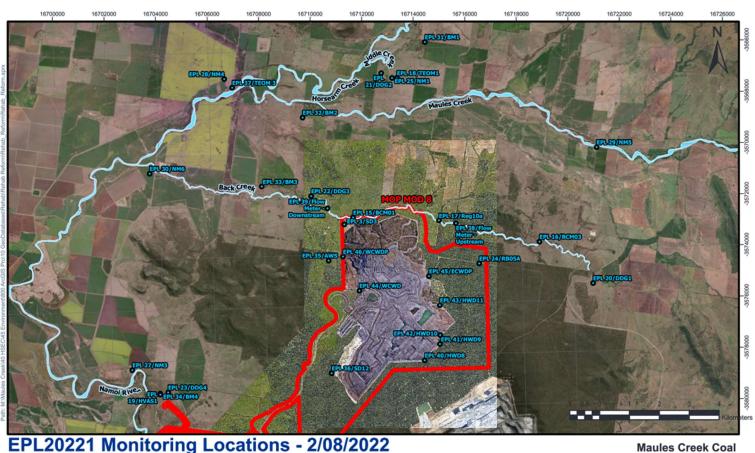
Table 9 – PM₁₀ (Limits Apply)

ID EPL (Site)	Sample period	Unit	Parameter	Rolling Annual Average	NEPM Annual Criteria	Exceedance (Yes / No)
18 (TEOM1)	Continuous	μg/m³ month	PM ₁₀	5.5	30	No
37 (TEOM3)	Continuous	μg/m³ month	PM ₁₀	12.7	30	No
19 (HVAS)	5 days	μg/m³	PM ₁₀	7.9	30	No

Table 10 – Depositional Dust (Limits Apply)

ID EPL (Site)	Sample period	Particulates Deposited Matter	Rolling Annual Average Insoluble Solids	Criteria	Exceedance (Yes / No)
20 (DDG1/MC1)	Monthly	g/m² month	1.0	4	No
21 (DDG2/MC2)	Monthly	g/m ² month	0.7	4	No
22 (DDG3/MC3)	Monthly	g/m² month	2.5	4	No
23 (DDG4/MC4)	Monthly	g/m² month	0.9	4	No

Figure 1 – EPL 20221 Monitoring Locations



EPL20221 Monitoring Locations - 2/08/2022

Legend

EPL Monitoring locations

05 Project Boundary_Boundaries

MCCM Project Boundary (Mod 8)

Scale: 1:88,442

Author: shenanewman Date Exported: 16/09/2022 11:51 AM

Spatial Reference Name: GDA2020 MGA Zone 56





MAULES CREEK COAL MINE - MONTHLY MONITORING SUMMARY

Site Information

EPL No: 20221

EPA Website Link: <u>Hyperlink to Maules Creek Coal, Environment Protection Licence</u>

Licensee: Maules Creek Coal Mine Pty Ltd

Licensee Address: Maules Creek Coal Mine, Therribri Road, BOGGABRI NSW 2382

EPL Monitoring Points: See Figure 1 below

Sampling Period: February 2023
Obtained Date: 15th March 2023
Publication Date: 16th March 2023

Context: This Monthly Monitoring Summary aligns with the Environment Protection Licence (EPL) No. 20221 – Maules Creek Coal Mine issued 2nd August 2022 by the

NSW Environment Protection Authority (EPA).



Monthly Monitoring Summary

Ground Water Monitoring

Table 1 - Groundwater Quality Monitoring

ID EPL (Bore)	Parameters	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value		
	рН	рН									
15 (BCM01)	Conductivity	μs/cm	Quarterly								
(BCIVIOI)	TDS	mg/L	1								
	рН	рН									
16 (BCM02)	Conductivity	μs/cm	Quarterly								
(BCM03)	TDS	mg/L	1								
	рH	рН				Next samp	le in March 2023				
17 (REG10A)	Conductivity	μs/cm	Quarterly								
(REGIOA)	TDS	mg/L									
	рН	рН									
24	Conductivity	μs/cm	Quarterly	rly							
(RB05A)	TDS	mg/L									



Surface Water Monitoring

Table 2 - Surface Water Monitoring - Mine Void

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value
	TSS	mg/L							15
12	Conductivity	μs/cm	Every 2	4	24/02/2023	Yes			1310
(Mine Void)	Oil & Grease	mg/L	months	' 1					<5
	рН	рН							8.16

Table 3 - Wet Weather Discharge - Surface Water Monitoring

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value
	Conductivity	μs/cm								
	Nitrate	mg/L	Conside							
	Nitrogen (total)	mg/L	Special Frequency 1 -							
3	Oil & Grease	mg/L	within 12							
(SD3)	рН	рН	hours of							
(303)	Phosphorous	mg/L	discharge from							
	Reactive Phosphorous	mg/L	EPL 3 or 36.							
	TSS	mg/L								
	Conductivity	μs/cm			No disc	harge occurred fro	m this monitoring	location during F	ebruary 2023	
	Nitrate	mg/L								
	Nitrogen (total)	mg/L	Special							
	Oil & Grease	mg/L	Frequency 1 -							
36	рH	рН	within 12							
(SD12)	Phosphorous	mg/L	hours of							
	Reactive	mg/L	discharge from							
	Phosphorous		EPL 3 or 36							
	TSS	mg/L								
	Conductivity	μs/cm								



Table 4 - Clean Water Discharge - Surface Water Monitoring

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value
	Conductivity	μs/cm								
	Nitrate	mg/L								
	Nitrogen (total)	mg/L								
	Oil & Grease	mg/L								
	рН	рН								
	Phosphorous	mg/L	Special							
38	Reactive Phosphorous	mg/L	Frequency 3 - within 12							
(Flow Meter	TSS	mg/L	hours of							
Upstream)	Conductivity	μs/cm	discharge							
	Nitrate	mg/L	from any							
	Nitrogen (total)	mg/L	discharge							
	Oil & Grease	mg/L	location.							
	рН	рН								
	Phosphorous	mg/L								
	Reactive	mg/L								
	Phosphorous									
	TSS	mg/L		-	No discha	rge occurred from	this monitoring lo	cation during Febr	uary 2023	
	Conductivity	μs/cm	_							
	Nitrate	mg/L	4							
	Nitrogen (total)	mg/L	4							
	Oil & Grease	mg/L	_							
	pH	pH	Special							
	Phosphorous	mg/L	Frequency 3 -							
39	Reactive Phosphorous	mg/L	within 12 hours of							
(Flow Meter	TSS	mg/L	discharge							
downstream)	Conductivity	μs/cm	from any							
	Nitrate	mg/L	discharge							
	Nitrogen (total)	mg/L	location.							
	Oil & Grease	mg/L	_							
	рН	рН	_							
	Phosphorous	mg/L	_							
	Reactive Phosphorous	mg/L								

	TSS	mg/L	
			Special
	TSS	mg/L	Frequency 2
		,	– prior to
	Conductivity	μs/cm	discharging
	011.0.0	,.	from EPL 45
40	Oil & Grease	mg/L	and/or 46 or within
(HWD8)			12hours of
(25)			discharge
			caused by
1	рН	рН	38.4mm in a
			5 Day
			consecutive
			period
I	TSS	mg/L	
			Special
	Conductivity	μs/cm	Frequency 2
			– prior to
İ	Oil & Grease	mg/L	discharging
			from EPL 45 and/or 46 or
41	рН	рН	within
(HWD9)		,,	12hours of
,	TSS	mg/L	discharge
		,	caused by
	Conductivity	μs/cm	38.4mm in a
	Oil 9 Crees	/1	5 Day consecutive
	Oil & Grease	mg/L	period
	рН	рН	7
	μιι	hu	
	TSS	mg/L	Special
	155	1118/ -	Frequency 2
42	Conductivity	μs/cm	– prior to
(HWD10)	Conductivity	M3/ 0111	discharging
	Oil & Grease	mg/L	from EPL 45 and/or 46 or
	2.1 6. 0.0000		anu/01 40 0f



	рН	рН	within 12hours of discharge caused by 38.4mm in a 5 Day consecutive period
	TSS	mg/L	
	Conductivity	μs/cm	Special Frequency 2 – prior to
	Oil & Grease	mg/L	discharging from EPL 45
43	рН	рН	and/or 46 or within
(HWD11)	TSS	mg/L	12hours of discharge
	Conductivity	μs/cm	caused by 38.4mm in a 5 Day
	Oil & Grease	mg/L	consecutive period
	рН	рН	
	TSS	mg/L	Special Frequency 2
	Conductivity	μs/cm	- prior to discharging
44	Oil & Grease	mg/L	from EPL 45 and/or 46 or
(WCWD)	рН	рН	within 12hours of
	TSS	mg/L	discharge caused by 38.4mm in a
	Conductivity	μs/cm	5 Day



			consecutive
	Oil & Grease	mg/L	period
	рН	рН	
	Oil & Grease	mg/L	
	рН	рН	
45	TSS	mg/L	not more than 12
(ECWDP)	Oil & Grease	mg/L	hours after discharge
	рН	рН	commences
	TSS	mg/L	
	Oil & Grease	mg/L	
	рН	рН	
46	TSS	mg/L	not more than 12
(WCWDP)	Oil & Grease	mg/L	hours after discharge
	рН	mg/L	commences
	TSS	рН	-



Noise Monitoring

Table 6 - Noise Monitoring (Attended - Measured)

MCC ID	Date	Start Time	Wind Speed (m/s)	MCCP LAeq _{15min} dB	Limit L _{Aeq} _{15min} (dB) Operations Criteria	MCCP LAeq _{1min} dB	Limit L _{A1 (1 min)} (dB) Operations Criteria	Weather Rain (mm)	Exceedance (Yes / No)
NM1	01/02/2023	23:00	0.2	22	35	25	45	0.0	NA
NM2	02/02/2023	00:00	0.2	29	39	35	45	0.0	NA
NM3	02/02/2023	00:35	0.2	IA	35	IA	45	0.0	NA
NM4	01/02/2023	23:30	0.3	23	35	25	45	0.0	NA
NM5	01/02/2023	22:30	0.1	25	35	29	45	0.0	NA
NM6	01/02/2023	23:42	0.1	IA	35	IA	45	0.0	NA

MCC ID = Locations as per the EPL No.20221.

ND = No data due to high prevailing winds during the attended noise monitoring event.

Italicised text indicates wind speed exceeds the 3.0m/s maximum for noise monitoring.

NM = Not Measurable. If site noise is noted as NM, <20 dB or <30 dB, this means some noise was audible but could not be quantified.

IA = Site noise was inaudible at the monitoring location.

N/A in exceedance column means criterion was not applicable due to atmospheric conditions outside those specified in the project approval.

Table 7 - Noise Monitoring (Attended - Low Frequency Assessment)

None of the measurements satisfied the conditions for further assessment when assessed for the applicability of low frequency modification factors in accordance with the EPA's Noise Policy for Industry. Therefore, no further assessment of low frequency noise was required to be undertaken.



Blast Monitoring

Table 8 - Blast Monitoring (Blasts - Limits Apply)

Location	Parameter	Units	Frequency	Number	Average	Max	100% Limit	Exceedance (Yes / No)
Operations	Overpressure	Db (Lin Peak)		11	93.4	116.9	120	No
Blasts	Vibration	mm/s	All	11	0.20	0.90	10	No

Note: As of March 2018, in accordance with the requirements of the approved variation of EPL 20221; M7.1 blast monitoring results are for four blast monitoring points 31 (BM1), 32 (BM2), 33 (BM3) and 34 (BM4).



Air Quality Monitoring

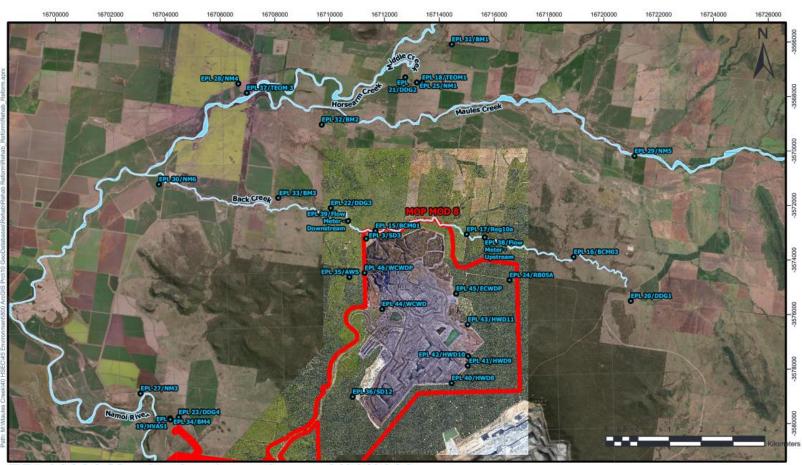
Table 9 – PM_{10} (Limits Apply)

ID EPL (Site)	Sample period	Unit	Parameter	Rolling Annual Average	NEPM Annual Criteria	Exceedance (Yes / No)
18 (TEOM1)	Continuous	μg/m³ month	PM ₁₀	6.1	30	No
37 (TEOM3)	Continuous	μg/m³ month	PM ₁₀	12.5	30	No
19 (HVAS)	5 days	μg/m³	PM ₁₀	8.5	30	No

Table 10 – Depositional Dust (Limits Apply)

ID EPL (Site)	Sample period	Particulates Deposited Matter	Rolling Annual Average Insoluble Solids	Criteria	Exceedance (Yes / No)
20 (DDG1/MC1)	Monthly	g/m² month	1.0	4	No
21 (DDG2/MC2)	Monthly	g/m² month	1.0	4	No
22 (DDG3/MC3)	Monthly	g/m² month	2.5	4	No
23 (DDG4/MC4)	Monthly	g/m² month	1.0	4	No

Figure 1 – EPL 20221 Monitoring Locations



EPL20221 Monitoring Locations - 2/08/2022

Legend

EPL Monitoring locations

05 Project Boundary_Boundaries

MCCM Project Boundary (Mod 8)

Maules Creek Coal

Scale: 1:88,442 Author: shenanewman

Date Exported: 16/09/2022 11:51 AM

Spatial Reference Name: GDA2020 MGA Zone 56



Disclaimer. Map for reference only and subject to survey. MCC makes no guarantee of the accuracy of this map and data within, MCC shall have no ilability for any decisions made or actions taken based upon this map.



MAULES CREEK COAL MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 20221

EPA Website Link: <u>Hyperlink to Maules Creek Coal, Environment Protection Licence</u>

Licensee: Maules Creek Coal Mine Pty Ltd

Licensee Address: Maules Creek Coal Mine, Therribri Road, BOGGABRI NSW 2382

EPL Monitoring Points: See Figure 1 below

Sampling Period: March 2023 Obtained Date: 18th April 2023 Publication Date: 19th April 2023

Context: This Monthly Monitoring Summary aligns with the Environment Protection Licence (EPL) No. 20221 – Maules Creek Coal Mine issued 2nd August 2022 by the

NSW Environment Protection Authority (EPA).



Monthly Monitoring Summary

Ground Water Monitoring

Table 1 - Groundwater Quality Monitoring

ID EPL (Bore)	Parameters	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value	
15	pН	рН								
15 (DCM01)	Conductivity	μs/cm	Quarterly	0		Dr	y – Next sample in Jur	ne 2023		
(BCM01)	M01) TDS									
	рН	рН								
(BCM03) 	Conductivity	μs/cm	Quarterly	0	Dry – Next sample in June 2023					
	TDS	mg/L								
47	pH	рН								
17	Conductivity	μs/cm	Quarterly	0		Dr	y – Next sample in Jur	ne 2023		
(REG10A)	TDS	mg/L	Ī							
24 CC	pH	рН							7.61	
	Conductivity	μs/cm	Quarterly	1	10/03/23	Yes			1850	
	TDS	mg/L							1070	



Surface Water Monitoring

Table 2 - Surface Water Monitoring - Mine Void

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value
	TSS	mg/L					·	·	<5
12	Conductivity	μs/cm	Every 2	Every 2	20/02/2022	Yes			1290
(Mine Void)	Oil & Grease	mg/L	months	1	20/03/2023				<5
	рН	рН							8.17

Table 3 - Wet Weather Discharge - Surface Water Monitoring

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value
	Conductivity	μs/cm								
	Nitrate	mg/L	6							
	Nitrogen (total)	mg/L	Special Frequency 1 -							
3	Oil & Grease	mg/L								
(SD3)	рН	рН	within 12 hours of							
(3D3)	Phosphorous	mg/L								
	Reactive Phosphorous	mg/L	ePL 3 or 36.							
	TSS	mg/L								
	Conductivity	μs/cm		No discharge occurred from this monitoring location during March 2023						
	Nitrate	mg/L								
	Nitrogen (total)	mg/L	Special							
	Oil & Grease	mg/L	Frequency 1 -							
36	pH	рН	within 12							
(SD12)	Phosphorous	mg/L	hours of							
	Reactive Phosphorous	mg/L	discharge from EPL 3 or 36							
	TSS	mg/L	1							
	Conductivity	μs/cm								



Table 4 - Clean Water Discharge - Surface Water Monitoring

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value	
	Conductivity	μs/cm				1					
	Nitrate	mg/L									
	Nitrogen (total)	mg/L									
	Oil & Grease	mg/L									
	pH	pН									
	Phosphorous	mg/L	Special								
38	Reactive Phosphorous	mg/L	Frequency 3 - within 12 hours of								
(Flow Meter	TSS	mg/L									
Upstream)	Conductivity	μs/cm	discharge								
	Nitrate	mg/L	from any								
	Nitrogen (total)	mg/L	discharge								
	Oil & Grease	mg/L	location.								
	pН	рН									
	Phosphorous	mg/L									
	Reactive Phosphorous	mg/L									
	TSS	mg/L		No flow was recorded at these sites.							
	Conductivity	μs/cm									
	Nitrate	mg/L									
	Nitrogen (total)	mg/L									
	Oil & Grease	mg/L									
	pН	pН	Special								
	Phosphorous	mg/L	Frequency 3 -								
39	Reactive Phosphorous	mg/L	within 12 hours of								
(Flow Meter	TSS	mg/L	discharge								
downstream)	Conductivity	μs/cm	from any								
	Nitrate	mg/L	discharge								
	Nitrogen (total)	mg/L	location.								
	Oil & Grease	mg/L									
	pH	pН	_								
[Phosphorous	mg/L	1								
	Reactive Phosphorous	mg/L									

	TSS	mg/L	
	TSS	mg/L	Special
	133	IIIg/L	Frequency 2
	Conductivity	μs/cm	– prior to
	Conductivity	με/τιι	discharging from EPL 45
	Oil & Grease	mg/L	and/or 46 or
40	Oii & Grease	IIIg/L	within
(HWD8)			12hours of
			discharge
	nU	nU	caused by
	pH	рH	38.4mm in a 5 Day
			consecutive
			period
		,	·
	TSS	mg/L	
	Conductivity	us/sm	Special
	Conductivity	μs/cm	Frequency 2 – prior to
	Oil & Grease	mg/L	discharging
	Oii & Grease	IIIg/L	from EPL 45
	рН	рН	and/or 46 or
41	P	P	within
(HWD9)	TSS	mg/L	12hours of discharge
		-	caused by
	Conductivity	μs/cm	38.4mm in a
			5 Day
	Oil & Grease	mg/L	consecutive
			period
	рН	рН	
			Special .
	TSS	mg/L	Special Frequency 2
42		1,	– prior to
(HWD10)	Conductivity	μs/cm	discharging
	Oil & Crosss	ma/l	from EPL 45
	Oil & Grease	mg/L	and/or 46 or

	рН	рН	within 12hours of discharge caused by 38.4mm in a 5 Day consecutive period
	TSS Conductivity	mg/L μs/cm	Special Frequency 2 - prior to
43	Oil & Grease	mg/L pH	discharging from EPL 45 and/or 46 or within
(HWD11)	TSS	mg/L μs/cm	12hours of discharge caused by 38.4mm in a
	Oil & Grease	mg/L	5 Day consecutive period
	pH	pН	
	TSS	mg/L μs/cm	Special Frequency 2 prior to discharging
44	Oil & Grease	mg/L	from EPL 45 and/or 46 or
(WCWD)	рН	рН	within 12hours of
	TSS	mg/L	discharge caused by 38.4mm in a
	Conductivity	μs/cm	5 Day



	Oil & Grease	mg/L	consecutive period
	рН	рН	
	Oil & Grease	mg/L	
	рН	рН	not more
45	TSS	mg/L	than 12 hours after
(ECWDP)	Oil & Grease	mg/L	discharge commences
	рН	рН	commences
	TSS	mg/L	
	Oil & Grease	mg/L	
	рН	рН	not more
46	TSS	mg/L	not more than 12 hours after
(WCWDP)	Oil & Grease	mg/L	discharge
	рН	mg/L	commences
	TSS	рН	



Table 5 - Controlled and/or Wet Weather Monitoring

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value
	TSS	mg/L	not more						6
47	Conductivity	μs/cm	than 12						900
(SD7)	Oil & Grease	mg/L	hours after	1	21/03/23	Yes			<5
	рН	рН	discharge commences						8.20

^{*}Due to temporary inclusion, site 47 is not included in figure 1, EPL 20221 Monitoring Locations

Noise Monitoring

Table 6 - Noise Monitoring (Attended - Measured)

MCC ID	Date	Start Time	Wind Speed (m/s)	MCCP LAeq _{15min} dB	Limit L _{Aeq} _{15min} (dB) Operations Criteria	MCCP LAeq _{1min} dB	Limit L _{A1 (1 min)} (dB) Operations Criteria	Weather Rain (mm)	Exceedance (Yes / No)
NM1	09/03/2023	22:30	0.5	22	35	35	45	0.0	NA
NM2	09/03/2023	23:30	0.2	26	39	30	45	0.0	NA
NM3	09/03/2023	23:36	0.3	IA	35	IA	45	0.0	NA
NM4	09/03/2023	23:00	0.7	25	35	28	45	0.0	NA
NM5	09/03/2023	22:00	1.6	IA	35	IA	45	0.0	NA
NM6	09/03/2023	23:56	0.2	<20	35	<20	45	0.0	NA

MCC ID = Locations as per the EPL No.20221.

ND = No data due to high prevailing winds during the attended noise monitoring event.

 ${\it Italicised text indicates wind speed exceeds the 3.0 m/s \ maximum for \ noise \ monitoring.}$

NM = Not Measurable. If site noise is noted as NM, <20 dB or <30 dB, this means some noise was audible but could not be quantified.

IA = Site noise was inaudible at the monitoring location.

N/A in exceedance column means criterion was not applicable due to atmospheric conditions outside those specified in the project approval.

Table 7 - Noise Monitoring (Attended - Low Frequency Assessment)

None of the measurements satisfied the conditions for further assessment when assessed for the applicability of low frequency modification factors in accordance with the EPA's Noise Policy for Industry. Therefore, no further assessment of low frequency noise was required to be undertaken.



Blast Monitoring

Table 8 - Blast Monitoring (Blasts - Limits Apply)

Location	Parameter	Units	Frequency	Number	Average	Max	100% Limit	Exceedance (Yes / No)
Operations	Overpressure	Db (Lin Peak)		6	94	107.8	120	No
Blasts	Vibration	mm/s	All	6	0.19	0.64	10	No

Note: As of March 2018, in accordance with the requirements of the approved variation of EPL 20221; M7.1 blast monitoring results are for four blast monitoring points 31 (BM1), 32 (BM2), 33 (BM3) and 34 (BM4).



Air Quality Monitoring

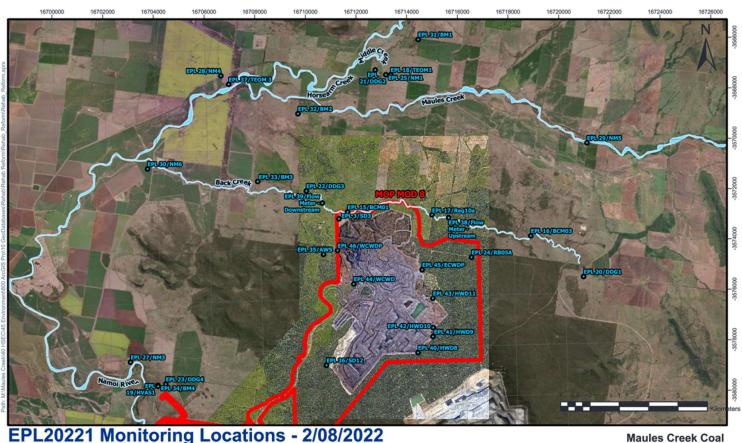
Table 9 – PM₁₀ (Limits Apply)

ID EPL (Site)	Sample period	Unit	Parameter	Rolling Annual Average	NEPM Annual Criteria	Exceedance (Yes / No)
18 (TEOM1)	Continuous	μg/m³ month	PM ₁₀	6.9	30	No
37 (TEOM3)	Continuous	μg/m³ month	PM ₁₀	13.1	30	No
19 (HVAS)	5 days	μg/m³	PM ₁₀	8.9	30	No

Table 10 – Depositional Dust (Limits Apply)

	1		FFJJ		
ID EPL (Site)	Sample period	Particulates Deposited Matter	Rolling Annual Average Insoluble Solids	Criteria	Exceedance (Yes / No)
20 (DDG1/MC1)	Monthly	g/m² month	1.0	4	No
21 (DDG2/MC2)	Monthly	g/m² month	1.1	4	No
22 (DDG3/MC3)	Monthly	g/m² month	2.5	4	No
23 (DDG4/MC4)	Monthly	g/m² month	1.1	4	No

Figure 1 – EPL 20221 Monitoring Locations



EPL20221 Monitoring Locations - 2/08/2022

Legend

EPL Monitoring locations

05 Project Boundary_Boundaries

MCCM Project Boundary (Mod 8)

Scale: 1:88,442

Author: shenanewman

Date Exported: 16/09/2022 11:51 AM

Spatial Reference Name: GDA2020 MGA Zone 56



Disclaimer: Map for reference only and subject to survey. MCC makes no guarantee of the accuracy of this map and data within, MCC shall have no liability for any decisions made or actions taken based upon this map.



MAULES CREEK COAL MINE - MONTHLY MONITORING SUMMARY

Site Information

EPL No: 20221

EPA Website Link: <u>Hyperlink to Maules Creek Coal, Environment Protection Licence</u>

Licensee: Maules Creek Coal Mine Pty Ltd

Licensee Address: Maules Creek Coal Mine, Therribri Road, BOGGABRI NSW 2382

EPL Monitoring Points: See Figure 1 below

Sampling Period: April 2023 Obtained Date: 15th May 2023 Publication Date: 16th May 2023

Context: This Monthly Monitoring Summary aligns with the Environment Protection Licence (EPL) No. 20221 – Maules Creek Coal Mine issued 2nd August 2022 by the

NSW Environment Protection Authority (EPA).



Monthly Monitoring Summary

Ground Water Monitoring

Table 1 - Groundwater Quality Monitoring

ID EPL (Bore)	Parameters	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value		
4.5	pН	pН									
15 (BCN401)	Conductivity	μs/cm	Quarterly			Next san	ple in June 2023				
(BCM01)	TDS	mg/L									
16	рН	pН									
16 C (BCM03)	Conductivity	μs/cm	Quarterly	Next sample in June 2023							
(BCIVIUS)	TDS	mg/L									
47	рН	pН									
17 (BEC10A)	Conductivity	μs/cm	Quarterly			Next san	ple in June 2023				
(REG10A)	TDS	mg/L									
2.4	рН	pН									
24	Conductivity	μs/cm	Quarterly	Next sample in June 2023							
(RB05A)	TDS	mg/L			• 1111						



Surface Water Monitoring

Table 2 - Surface Water Monitoring - Mine Void

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value		
12	TSS Conductivity	mg/L μs/cm	Every 2	Next sample in May 2023							
(Mine Void)	Oil & Grease	mg/L	months								
	рН	pН									

Table 3 - Wet Weather Discharge - Surface Water Monitoring

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value
3 (SD3)	Conductivity	μs/cm	Special Frequency 1 - within 12 hours of discharge from EPL 3 or 36.							
	Nitrate	mg/L								
	Nitrogen (total)	mg/L								
	Oil & Grease	mg/L								
	pН	рН								
	Phosphorous	mg/L								
	Reactive Phosphorous	mg/L								
	TSS	mg/L								
36 (SD12)	Conductivity	μs/cm	Special Frequency 1 - within 12 hours of discharge from EPL 3 or 36	No discharge occurred from this monitoring location						
	Nitrate	mg/L								
	Nitrogen (total)	mg/L								
	Oil & Grease	mg/L								
	pН	рН								
	Phosphorous	mg/L								
	Reactive	mg/L								
	Phosphorous									
	TSS	mg/L								
	Conductivity	μs/cm								



Table 4 - Clean Water Discharge - Surface Water Monitoring

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value			
	Conductivity	μs/cm				•							
	Nitrate	mg/L	Special										
20	Nitrogen (total)	mg/L	Frequency 3 -										
38 (Flow Meter	Oil & Grease	mg/L	within 12 hours of										
Upstream)	рН	рН	discharge										
Opstreami	Phosphorous	mg/L	from any										
	Reactive Phosphorous	mg/L	discharge location.										
	TSS	mg/L	location.			N = £1		!4					
	Conductivity	μs/cm				NO TIOW V	was recorded at th	iese sites.					
	Nitrate	mg/L	Special										
	Nitrogen (total)	mg/L	Frequency 3 -										
39	Oil & Grease	mg/L	within 12 hours of										
(Flow Meter	рН	pН	discharge										
downstream)	Phosphorous	mg/L	from any										
	Reactive Phosphorous	mg/L	discharge										
	TSS	mg/L	location.										
	TSS	mg/L	Special Frequency 2 – prior to										
40	Conductivity	μs/cm	discharging from EPL 45 and/or 46 or within			No discharge con	uurun di fanana khiin an						
(HWD8)	Oil & Grease	mg/L	12hours of discharge caused by 38.4mm in a			ind discharge occ	urrea from trils m	onitoring location					
	рН	рН	5 Day consecutive period										



ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value
	TSS	mg/L	Special Frequency 2 – prior to							
41	Conductivity	μs/cm	discharging from EPL 45 and/or 46 or within							
(HWD9)	Oil & Grease	mg/L	12hours of discharge caused by 38.4mm in a							
	рН	рН	5 Day consecutive period							
	TSS	mg/L	Special Frequency 2 – prior to discharging							
42	Conductivity	μs/cm	from EPL 45 and/or 46 or within							
(HWD10)	Oil & Grease	mg/L	12hours of discharge caused by 38.4mm in a							
	рН	рН	5 Day consecutive period							
43	TSS	mg/L	Special Frequency 2 — prior to — discharging	1	19/04/23	Yes	NA	Na	Na	29.5
(HWD11)	Conductivity	μs/cm	from EPL 45 and/or 46 or within	1	13/04/23	103	NA	140	140	170



ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value	
	Oil & Grease	mg/L	12hours of discharge caused by 38.4mm in a							<10	
	Ηα	рН	5 Day consecutive period							7.67	
	TSS	mg/L	Special								
	Conductivity	μs/cm	Frequency 2 - prior to discharging from EPL 45								
44 (WCWD)	Oil & Grease	mg/L	and/or 46 or within 12hours of discharge	5 or No discharge occurred from this monitoring location							
	рН	рН	caused by 38.4mm in a 5 Day								
	рН	pH	consecutive period								
	TSS	mg/L									

^{*}update to report to remove incorrect results



Table 5 - Controlled and/or Wet Weather Monitoring

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value
	TSS	mg/L	not more						46
47	Conductivity	μs/cm	than 12				_	_	560
(SD7)	Oil & Grease	mg/L	hours after	1	17/04/23	Yes	N/A	N/A	<10
	рН	рН	discharge commences						7.94

^{*}Due to temporary inclusion, site 47 is not included in figure 1, EPL 20221 Monitoring Locations

Noise Monitoring

Table 6 - Noise Monitoring (Attended - Measured)

Location	Start Date and Time	Wi	nd	Stability Class	Very enhancing? 1	Limits, d	B1	Site levels	dB ²	Exceedances, dB	
		Speed m/s	Direction ³			L _{Aeq,15minute}	L _{Amax}	L Aeq,15minute	L _{Amax}	L Aeq,15minute	LAmax
NM1	27/04/2023 22:30	0.4	251	F	No	35	45	IA	IA	Nil	Nil
NM2	27/04/2023 23:30	0.2	200	F	No	39	45	<20	<20	Nil	Nil
NM3	27/04/2023 23:23	0.5	224	F	No	35	45	<20	<20	Nil	Nil
NM4	27/04/2023 23:00	0.2	122	F	No	35	45	IA	IA	Nil	Nil
NM5	27/04/2023 22:04	0.8	281	F	No	35	45	IA	IA	Nil	Nil
NM6	27/04/2023 23:55	0.5	104	F	No	35	45	IA	IA	Nil	Nil

- Notes: 1. Noise limits are adjusted by +5 dB during 'very enhancing meteorological conditions' in accordance with the NPfl.
 - 2. Site-only LAeq,15minute, includes modifying factor penalties if applicable.
 - 3. Degrees magnetic north, "-" indicates calm conditions.

Table 7 - Noise Monitoring (Attended - Low Frequency Assessment)

None of the measurements satisfied the conditions for further assessment when assessed for the applicability of low frequency modification factors in accordance with the EPA's Noise Policy for Industry. Therefore, no further assessment of low frequency noise was required to be undertaken.



Blast Monitoring

Table 8 - Blast Monitoring (Blasts - Limits Apply)

Location	Parameter	Units	Frequency	Number	Average	Max	100% Limit	Exceedance (Yes / No)
Operations	Overpressure	Db (Lin Peak)		10	94.02	108	120	No
Blasts	Vibration	mm/s	All	10	0.18	1.29	10	No

Note: As of March 2018, in accordance with the requirements of the approved variation of EPL 20221; M7.1 blast monitoring results are for four blast monitoring points 31 (BM1), 32 (BM2), 33 (BM3) and 34 (BM4).



Air Quality Monitoring

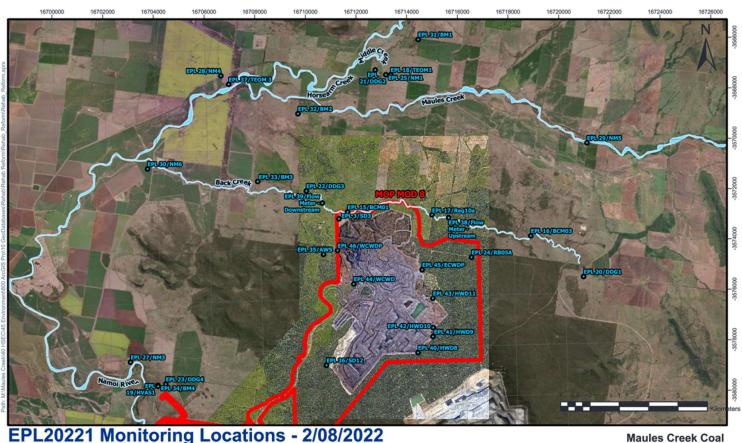
Table 9 – PM₁₀ (Limits Apply)

	•	11 27				
ID EPL (Site)	Sample period	Unit	Parameter	Rolling Annual Average	NEPM Annual Criteria	Exceedance (Yes / No)
18 (TEOM1)	Continuous	μg/m³ month	PM ₁₀	7.2	30	No
37 (TEOM3)	Continuous	μg/m³ month	PM ₁₀	13.2	30	No
19 (HVAS)	5 days	μg/m³	PM ₁₀	9.0	30	No

Table 10 – Depositional Dust (Limits Apply)

ID EPL (Site)	Sample period	Particulates Deposited Matter	Rolling Annual Average Insoluble Solids	Criteria	Exceedance (Yes / No)
20 (DDG1/MC1)	Monthly	g/m² month	1.0	4	No
21 (DDG2/MC2)	Monthly	g/m² month	1.2	4	No
22 (DDG3/MC3)	Monthly	g/m² month	2.5	4	No
23 (DDG4/MC4)	Monthly	g/m² month	1.2	4	No

Figure 1 – EPL 20221 Monitoring Locations



EPL20221 Monitoring Locations - 2/08/2022

Legend

EPL Monitoring locations

05 Project Boundary_Boundaries

MCCM Project Boundary (Mod 8)

Scale: 1:88,442

Author: shenanewman

Date Exported: 16/09/2022 11:51 AM

Spatial Reference Name: GDA2020 MGA Zone 56



Disclaimer: Map for reference only and subject to survey. MCC makes no guarantee of the accuracy of this map and data within, MCC shall have no liability for any decisions made or actions taken based upon this map.



MAULES CREEK COAL MINE - MONTHLY MONITORING SUMMARY

Site Information

EPL No: 20221

EPA Website Link: <u>Hyperlink to Maules Creek Coal, Environment Protection Licence</u>

Licensee: Maules Creek Coal Mine Pty Ltd

Licensee Address: Maules Creek Coal Mine, Therribri Road, BOGGABRI NSW 2382

EPL Monitoring Points: See Figure 1 below

Sampling Period: May 2023 Obtained Date: 15th June 2023 Publication Date: 16th June 2023

Context: This Monthly Monitoring Summary aligns with the Environment Protection Licence (EPL) No. 20221 – Maules Creek Coal Mine issued 2nd August 2022 by the NSW Environment Protection Authority (EPA).



Monthly Monitoring Summary

Ground Water Monitoring

Table 1 - Groundwater Quality Monitoring

ID EPL (Bore)	Parameters	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value	
15	рН	рН								
(BCM01)	Conductivity	μs/cm	Quarterly			Next sa	mple in June 2023			
(BCIVIOI)	TDS	mg/L								
16	рН	рН								
(BCM03)	Conductivity	μs/cm	Quarterly	Next sample in June 2023						
(BCIVIUS)	TDS	mg/L								
17	рН	рН								
17 (REG10A)	Conductivity	μs/cm	Quarterly			Next sa	mple in June 2023			
(REGIUA)	TDS	mg/L		Next sample in June 2023						
24	pН	pH								
24 (BBOEA)	Conductivity	μs/cm	Quarterly	nrterly Next sample in June 2023						
(RB05A)	TDS	mg/L								



Surface Water Monitoring

Table 2 - Surface Water Monitoring - Mine Void

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value
	TSS	mg/L							23
12	Conductivity	μs/cm	Every 2	1	15/05/2023	15/06/2022	NA	NA	1240
(Mine Void)	Oil & Grease	mg/L	months	1	15/05/2023	15/06/2023	INA	INA	<5
	pН	pН							8.42

Table 3 - Wet Weather Discharge - Surface Water Monitoring

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value
	Conductivity	μs/cm								
	Nitrate	mg/L	Cnosial							
	Nitrogen (total)	mg/L	Special							
3	Oil & Grease	mg/L	Frequency 1 - within 12							
(SD3)	рH	pН	hours of							
(303)	Phosphorous	mg/L	discharge from							
	Reactive Phosphorous	mg/L	EPL 3 or 36.							
	TSS	mg/L								
	Conductivity	μs/cm				No discharge of	ccurred from this	monitoring locati	on	
	Nitrate	mg/L								
	Nitrogen (total)	mg/L	Special							
	Oil & Grease	mg/L	Frequency 1 -							
36	pН	рН	within 12							
(SD12)	Phosphorous	mg/L	hours of							
	Reactive Phosphorous	mg/L	discharge from EPL 3 or 36							
	TSS	mg/L								
	Conductivity	μs/cm								



Table 4 - Clean Water Discharge - Surface Water Monitoring

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value
	Conductivity	μs/cm								
	Nitrate	mg/L	Special							
20	Nitrogen (total)	mg/L	Frequency 3 - within 12							
38 (Flow Meter	Oil & Grease	mg/L	hours of							
Upstream)	рН	рН	discharge							
Opstreamy	Phosphorous	mg/L	from any							
	Reactive Phosphorous	mg/L	discharge location.							
	TSS	mg/L	- location.			N. fl.				
	Conductivity	μs/cm				NO TIOW V	vas recorded at th	ese sites.		
	Nitrate	mg/L	Special							
	Nitrogen (total)	mg/L	Frequency 3 - within 12							
39	Oil & Grease	mg/L	hours of							
(Flow Meter	рН	рН	discharge							
downstream)	Phosphorous	mg/L	from any							
	Reactive Phosphorous	mg/L	discharge location.							
	TSS	mg/L	Tocation.							
	TSS	mg/L	Special Frequency 2 - prior to							
40	Conductivity	μs/cm	discharging from EPL 45 and/or 46 or within			No disabawa assum				
(HWD8)	Oil & Grease	mg/L	12hours of discharge caused by 38.4mm in a			No discharge occur	rrea from these m	onitoring locations		
	рН	рН	5 Day consecutive period							



						WHITEHAVE				
ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value
	TSS	mg/L	Special Frequency 2 – prior to discharging							
41	Conductivity	μs/cm	from EPL 45 and/or 46 or within							
(HWD9)	Oil & Grease	mg/L	12hours of discharge caused by 38.4mm in a							
	рН	рН	5 Day consecutive period							
	TSS	mg/L	Special Frequency 2 – prior to discharging							
42	Conductivity	μs/cm	from EPL 45 and/or 46 or within							
(HWD10)	Oil & Grease	mg/L	12hours of discharge caused by 38.4mm in a							
	рН	рН	5 Day consecutive period							
43	TSS	mg/L	Special Frequency 2 – prior to discharging			No discharge occu	urrad from this me	anitoring location		
(HWD11)	Conductivity	μs/cm	from EPL 45 and/or 46 or within			NO discharge occu	arrea nom uns mo	onitoring location		



			_					1		
ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value
	Oil & Grease	mg/L	12hours of discharge caused by 38.4mm in a							
	рН	рН	5 Day consecutive period							
	TSS	mg/L	Special Frequency 2 - prior to							
44	Conductivity	μs/cm	discharging from EPL 45 and/or 46 or within			No discharge occ	urred from this mo	onitoring location		
(WCWD)	Oil & Grease	mg/L	12hours of discharge caused by 38.4mm in a			NO discharge occ	urrea from this me	onitoring location		
	рН	рН	5 Day consecutive period							
	Oil & Grease	mg/L	Not more							
45 (ECWDP)	рН	рН	than 12 hours after			No discharge occ	urred from this mo	onitoring location		
, ,	TSS	mg/L	discharge commences							
	Oil & Grease	mg/L	Not more							
46 (WCWDP)	рН	рН	than 12 hours after			No discharge occ	urred from this mo	onitoring location		
,	TSS	mg/L	discharge commences							



Noise Monitoring

Table 6 – Noise Monitoring (Attended – Measured)

MCC ID	Date	Start Time	Wind Speed (m/s)	MCCP LAeq 15min dB	Limit L _{Aeq} _{15min} (dB) Operations Criteria	MCCP LAeq 1min dB	Limit L _{A1 (1 min)} (dB) Operations Criteria	Weather Rain (mm)	Exceedance (Yes / No)
NM1	11/05/2023	22:30	0.6	<20	35	<20	45	0.0	NA
NM2	11/05/2023	23:30	1.0	IA	39	IA	45	0.0	NA
NM3	12/05/2023	0:22	1.5	IA	35	IA	45	0.0	NA
NM4	11/05/2023	23:00	0.5	NM	35	NM	45	0.0	NA
NM5	11/05/2023	22:00	0.6	IA	35	IA	45	0.0	NA
NM6	11/05/2023	23:55	1.1	IA	35	IA	45	0.0	NA

Table 7 - Noise Monitoring (Attended - Low Frequency Assessment)

None of the measurements satisfied the conditions for further assessment when assessed for the applicability of low frequency modification factors in accordance with the EPA's Noise Policy for Industry. Therefore, no further assessment of low frequency noise was required to be undertaken.



Blast Monitoring

Table 8 - Blast Monitoring (Blasts - Limits Apply)

Location	Parameter	Units	Frequency	Number	Average	Max	100% Limit	Exceedance (Yes / No)
Operations	Overpressure	Db (Lin Peak)	A 11	7	93.84	108.8	120	No
Blasts	Vibration	mm/s	All	7	0.13	0.67	10	No

Note: As of March 2018, in accordance with the requirements of the approved variation of EPL 20221; M7.1 blast monitoring results are for four blast monitoring points 31 (BM1), 32 (BM2), 33 (BM3) and 34 (BM4).



Air Quality Monitoring

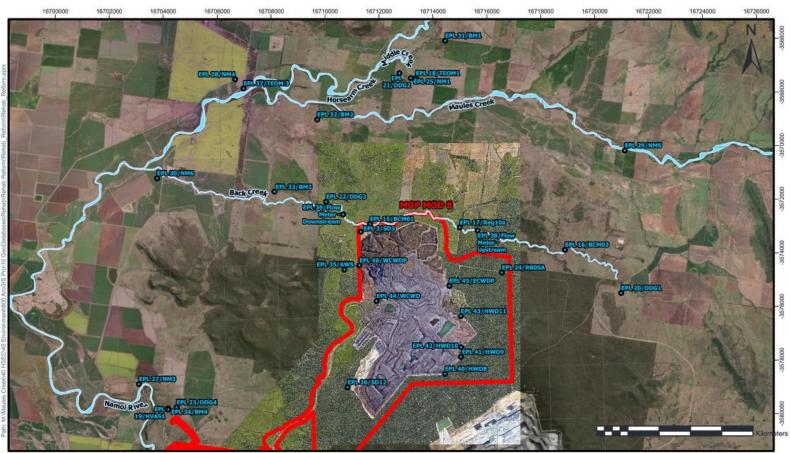
Table 9 – PM_{10} (Limits Apply)

ID EPL (Site)	Sample period	Unit	Parameter	Rolling Annual Average	NEPM Annual Criteria	Exceedance (Yes / No)
18 (TEOM1)	Continuous	μg/m³ month	PM ₁₀	7.7	30	No
37 (TEOM3)	Continuous	μg/m³ month	PM ₁₀	13.7	30	No
19 (HVAS)	5 days	μg/m³	PM ₁₀	10.7	30	No

Table 10 – Depositional Dust (Limits Apply)

ID EPL (Site)	Sample period	Particulates Deposited Matter	Rolling Annual Average Insoluble Solids	Criteria	Exceedance (Yes / No)
20 (DDG1/MC1)	Monthly	g/m² month	1.0	4	No
21 (DDG2/MC2)	Monthly	g/m² month	1.6	4	No
22 (DDG3/MC3)	Monthly	g/m² month	2.5	4	No
23 (DDG4/MC4)	Monthly	g/m² month	1.2	4	No

Figure 1 – EPL 20221 Monitoring Locations



EPL20221 Monitoring Locations - 2/08/2022

Legend

EPL Monitoring locations

05 Project Boundary_Boundaries

MCCM Project Boundary (Mod 8)

Scale: 1:88,442

Author: shenanewman

Date Exported: 16/09/2022 11:51 AM

Spatial Reference Name: GDA2020 MGA Zone 56



Maules Creek Coal

Disclaimer: Map for reference only and subject to survey. MCC makes no guarantee of the accuracy of this map and data within. MCC shall have no liability for any decisions made or actions taken based upon this map.



MAULES CREEK COAL MINE - MONTHLY MONITORING SUMMARY

Site Information

EPL No: 20221

EPA Website Link: Hyperlink to Maules Creek Coal, Environment Protection Licence

Licensee: Maules Creek Coal Mine Pty Ltd

Licensee Address: Maules Creek Coal Mine, Therribri Road, BOGGABRI NSW 2382

EPL Monitoring Points: See Figure 1 below

Sampling Period: June 2023 Obtained Date: 17th July 2023 Publication Date: 19th July 2023

Context: This Monthly Monitoring Summary aligns with the Environment Protection Licence (EPL) No. 20221 – Maules Creek Coal Mine issued 2nd August 2022 by the

NSW Environment Protection Authority (EPA).



Monthly Monitoring Summary

Ground Water Monitoring

Table 1 - Groundwater Quality Monitoring

ID EPL (Bore)	Parameters	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value
45	pН	pН							
15 (BCM01)	Conductivity	μs/cm	Quarterly	0			Dry		
(BCM01)	TDS	mg/L							
4.5	рН	pН							
16	Conductivity	μs/cm	Quarterly	0			Dry		
(BCM03)	TDS	mg/L							
47	рН	pН							
17 (DEC10A)	Conductivity	μs/cm	Quarterly	0			Dry		
(REG10A)	TDS	mg/L							
24	рН	pH							7.48
24 (DDOFA)	Conductivity	μs/cm	Quarterly	1	14/06/23	Yes			1840
(RB05A)	TDS	mg/L							968



Surface Water Monitoring

Table 2 - Surface Water Monitoring - Mine Void

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value
	TSS	mg/L				-			
12	Conductivity	μs/cm	Every 2			Nove compale tale 20	022		
(Mine Void)	Oil & Grease	mg/L	months			Next sample July 20	023		
	pH	рН	'						

Table 3 - Wet Weather Discharge - Surface Water Monitoring

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value
	Conductivity	μs/cm								
	Nitrate	mg/L								
	Nitrogen (total)	mg/L	Special							
3	Oil & Grease	mg/L	Frequency 1 -							
(SD3)	рH	рН	within 12 hours of							
(303)	Phosphorous	mg/L	discharge from							
	Reactive Phosphorous	mg/L	EPL 3 or 36.							
	TSS	mg/L								
	Conductivity	μs/cm				No discharge or	ccurred from this	monitoring locati	on	
	Nitrate	mg/L								
	Nitrogen (total)	mg/L	Special							
	Oil & Grease	mg/L	Frequency 1 -							
36	pН	рН	within 12							
(SD12)	Phosphorous	mg/L	hours of							
	Reactive	mg/L	discharge from							
	Phosphorous		EPL 3 or 36							
	TSS	mg/L								
	Conductivity	μs/cm								



Table 4 - Clean Water Discharge - Surface Water Monitoring

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value
	Conductivity	μs/cm				'		'		
	Nitrate	mg/L	Special							
	Nitrogen (total)	mg/L	Frequency 3 -							
38	Oil & Grease	mg/L	within 12							
(Flow Meter	рН	pН	hours of discharge							
Upstream)	Phosphorous	mg/L	from any							
	Reactive Phosphorous	mg/L	discharge location.							
	TSS	mg/L				No diselesses se				
	Conductivity	μs/cm				No discharge occ	curred during the	reporting month		
	Nitrate	mg/L	Special							
	Nitrogen (total)	mg/L	Frequency 3 -							
39	Oil & Grease	mg/L	within 12 hours of							
(Flow Meter	рН	pН	discharge							
downstream)	Phosphorous	mg/L	from any							
	Reactive	mg/L	discharge							
	Phosphorous		location.							
	TSS	mg/L								
	TSS	mg/L	Special Frequency 2 - prior to							
40	Conductivity	μs/cm	discharging from EPL 45 and/or 46 or within			No diadama	d f hb			
(HWD8)	Oil & Grease	mg/L	12hours of discharge caused by 38.4mm in a			No discharge occur	rea from these m	omtoring locations		
	рН	рН	5 Day consecutive period							



			WHITEHAVEN							
ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value
	TSS	mg/L	Special Frequency 2 - prior to discharging							
41	Conductivity	μs/cm	from EPL 45 and/or 46 or within							
(HWD9)	Oil & Grease	mg/L	12hours of discharge caused by 38.4mm in a							
	рН	рН	5 Day consecutive period							
	TSS	mg/L	Special Frequency 2 - prior to discharging							
42	Conductivity	μs/cm	from EPL 45 and/or 46 or within							
(HWD10)	Oil & Grease	mg/L	12hours of discharge caused by 38.4mm in a							
	рН	рН	5 Day consecutive period							
43	TSS	mg/L	Special Frequency 2 - prior to			No diseberas		unita auto a la cast		
(HWD11)	Conductivity	μs/cm	discharging from EPL 45 and/or 46 or within			NO discharge occ	urred from this mo	onitoring location		



						A THE STATE OF THE				
ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value
	Oil & Grease	mg/L	12hours of discharge caused by 38.4mm in a							
	Ηα	рН	5 Day consecutive period							
	TSS	mg/L	Special Frequency 2 – prior to							
44	Conductivity	μs/cm	discharging from EPL 45 and/or 46 or within			N. P. I	16			
(WCWD)	Oil & Grease	mg/L	12hours of discharge caused by 38.4mm in a			No discharge occ	urred from this m	onitoring location		
	рН	рН	5 Day consecutive period							
	Oil & Grease	mg/L	Not more							
45 (ECWDP)	рН	рН	than 12 hours after			No discharge occ	urred from this m	onitoring location		
, ,	TSS	mg/L	discharge commences							
	Oil & Grease	mg/L	Not more							
46 (WCWDP)	рН	рН	than 12 hours after			No discharge occ	urred from this m	onitoring location		
,	TSS	mg/L	discharge commences							



Noise Monitoring

Table 6 – Noise Monitoring (Attended – Measured)

MCC ID	Date	Start Time	Wind Speed (m/s)	MCCP LAeq _{15min} dB	Limit L _{Aeq} _{15min} (dB) Operations Criteria	MCCP LAeq _{1min} dB	Limit L _{A1 (1 min)} (dB) Operations Criteria	Weather Rain (mm)	Exceedance (Yes / No)
NM1	7/06/2023	22:30	0.4	IA	35	IA	45	0.0	NA
NM2	7/06/2023	23:30	0.3	IA	39	IA	45	0.0	NA
NM3	7/06/2023	23:22	0.3	IA	35	IA	45	0.0	NA
NM4	7/06/2023	23:00	0.4	IA	35	IA	45	0.0	NA
NM5	7/06/2023	22:00	0.6	IA	35	IA	45	0.0	NA
NM6	7/06/2023	23:54	0.8	IA	35	IA	45	0.0	NA

Table 7 - Noise Monitoring (Attended - Low Frequency Assessment)

None of the measurements satisfied the conditions for further assessment when assessed for the applicability of low frequency modification factors in accordance with the EPA's Noise Policy for Industry. Therefore, no further assessment of low frequency noise was required to be undertaken.



Blast Monitoring

Table 8 - Blast Monitoring (Blasts - Limits Apply)

Location	Parameter	Units	Frequency	Number	Average	Max	100% Limit	Exceedance (Yes / No)
Operations	Overpressure	Db (Lin Peak)		12	89.31	99.80	120	No
Blasts	Vibration	mm/s	All	12	0.16	1.04	10	No

Note: As of March 2018, in accordance with the requirements of the approved variation of EPL 20221; M7.1 blast monitoring results are for four blast monitoring points 31 (BM1), 32 (BM2), 33 (BM3) and 34 (BM4).



Air Quality Monitoring

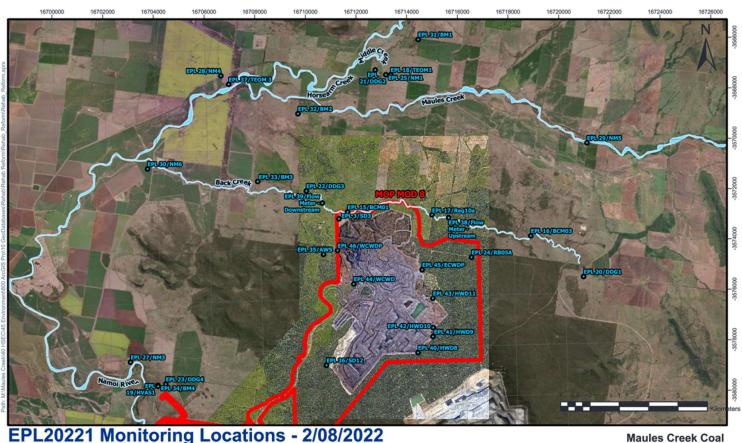
Table 9 – PM₁₀ (Limits Apply)

ID EPL (Site)	Sample period	Unit	Parameter	Rolling Annual Average	NEPM Annual Criteria	Exceedance (Yes / No)
18 (TEOM1)	Continuous	μg/m³ month	PM ₁₀	8.1	30	No
37 (TEOM3)	Continuous	μg/m³ month	PM ₁₀	13.4	30	No
19 (HVAS)	5 days	μg/m³	PM ₁₀	11.0	30	No

Table 10 – Depositional Dust (Limits Apply)

	1		FFJJ		
ID EPL (Site)	Sample period	Particulates Deposited Matter	Rolling Annual Average Insoluble Solids	Criteria	Exceedance (Yes / No)
20 (DDG1/MC1)	Monthly	g/m² month	1.6	4	No
21 (DDG2/MC2)	Monthly	g/m² month	1.8	4	No
22 (DDG3/MC3)	Monthly	g/m² month	2.5	4	No
23 (DDG4/MC4)	Monthly	g/m² month	1.2	4	No

Figure 1 – EPL 20221 Monitoring Locations



EPL20221 Monitoring Locations - 2/08/2022

Legend

EPL Monitoring locations

05 Project Boundary_Boundaries

MCCM Project Boundary (Mod 8)

Scale: 1:88,442

Author: shenanewman

Date Exported: 16/09/2022 11:51 AM

Spatial Reference Name: GDA2020 MGA Zone 56



Disclaimer: Map for reference only and subject to survey. MCC makes no guarantee of the accuracy of this map and data within, MCC shall have no liability for any decisions made or actions taken based upon this map.



MAULES CREEK COAL MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 20221

EPA Website Link: <u>Hyperlink to Maules Creek Coal, Environment Protection Licence</u>

Licensee: Maules Creek Coal Mine Pty Ltd

Licensee Address: Maules Creek Coal Mine, Therribri Road, BOGGABRI NSW 2382

EPL Monitoring Points: See Figure 1 below

Sampling Period: June 2023
Obtained Date: 15th August 2023
Publication Date: 15th August 2023

Context: This Monthly Monitoring Summary aligns with the Environment Protection Licence (EPL) No. 20221 – Maules Creek Coal Mine issued 4th August 2023 by the

NSW Environment Protection Authority (EPA).



Monthly Monitoring Summary

Ground Water Monitoring

Table 1 - Groundwater Quality Monitoring

ID EPL (Bore)	Parameters	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value		
15	рН	рН									
	Conductivity	μs/cm	Quarterly	0							
(BCM01)	TDS	mg/L									
16	рН	рН									
(BCM03) -	Conductivity	μs/cm	Quarterly	0							
	TDS	mg/L				N	aut Camanla Camtanaha	. 2022			
17	рН	рН				IN:	ext Sample September	2023			
17	Conductivity	μs/cm	Quarterly	0							
(REG10A)	TDS	mg/L									
2.4	рН	рН									
24	Conductivity	μs/cm	Quarterly	0							
(RB05A)	TDS	mg/L		, and the second							

Surface Water Monitoring

Table 2 - Surface Water Monitoring - Mine Void



ID	Parameter	Units	Frequency	Samples	Date	Laboratory Results	Min	Mean	Max / Only Value
EPL (Site)						Received			
12	TSS	mg/L	Every 2	1	13/07/2023	15/06/2023	NA	NA	<5
(Mine Void)	Conductivity	μs/cm	months						1320
	Oil & Grease	mg/L							<5
	рH	рН							8.20

Table 3 - Wet Weather Discharge - Surface Water Monitoring

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value
	Conductivity	μs/cm								
	Nitrate	mg/L	Consist							
	Nitrogen (total)	mg/L	Special							
3	Oil & Grease	mg/L	Frequency 1 - within 12							
(SD3)	рН	рН	hours of							
(3D3)	Phosphorous	mg/L	discharge from							
	Reactive Phosphorous	mg/L	EPL 3 or 36.							
	TSS	mg/L								
	Conductivity	μs/cm				No discharge o	ccurred from this	monitoring locati	on	
	Nitrate	mg/L								
	Nitrogen (total)	mg/L	Special							
	Oil & Grease	mg/L	Frequency 1 -							
36	рН	рН	within 12							
(SD12)	Phosphorous	mg/L	hours of							
	Reactive	mg/L	discharge from							
	Phosphorous		EPL 3 or 36							
	TSS	mg/L								
	Conductivity	μs/cm								



Table 4 - Clean Water Discharge - Surface Water Monitoring

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value			
	Conductivity	μs/cm											
	Nitrate	mg/L	Special										
	Nitrogen (total)	mg/L	Frequency 3 -										
38	Oil & Grease	mg/L	within 12										
(Flow Meter Upstream)	рН	рН	hours of discharge										
Opstream)	Phosphorous	mg/L	from any										
	Reactive Phosphorous	mg/L	discharge location.										
	TSS	mg/L	location.										
	Conductivity	μs/cm		No discharge occurred during the reporting month									
	Nitrate	mg/L	Special										
	Nitrogen (total)	mg/L	Frequency 3 -										
39	Oil & Grease	mg/L	within 12										
(Flow Meter	рН	рН	hours of discharge from any discharge										
downstream)	Phosphorous	mg/L											
	Reactive	mg/L											
	Phosphorous		location.										
	TSS	mg/L											
	TSS	mg/L	Special Frequency 2 - prior to										
40	Conductivity	μs/cm	discharging from EPL 45 and/or 46 or within										
(HWD8)	Oil & Grease	mg/L	12hours of discharge caused by 38.4mm in a			No discharge occurred from these monitoring locations							
	рН	рН	5 Day consecutive period										



		WHITEHAVER								
ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value
	TSS	mg/L	Special Frequency 2 – prior to discharging							
41	Conductivity	μs/cm	from EPL 45 and/or 46 or within							
(HWD9)	Oil & Grease	mg/L	12hours of discharge caused by 38.4mm in a							
	рН	рН	5 Day consecutive period							
	TSS	mg/L	Special Frequency 2 - prior to discharging							
42	Conductivity	μs/cm	from EPL 45 and/or 46 or within							
(HWD10)	Oil & Grease	mg/L	12hours of discharge caused by 38.4mm in a							
	рН	рН	5 Day consecutive period							
43	TSS	mg/L	Special Frequency 2 - prior to			No displaces a	used from this	onitoring leastice		
(HWD11)	Conductivity	μs/cm	discharging from EPL 45 and/or 46 or within			ivo discharge occ	urred from this mo	onitoring location		



ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value	
	Oil & Grease	mg/L	12hours of discharge caused by 38.4mm in a								
	рН	рН	5 Day consecutive period								
	TSS	mg/L	Special								
	Conductivity	μs/cm	Frequency 2 – prior to discharging from EPL 45								
44 (WCWD)	Oil & Grease	mg/L	and/or 46 or within 12hours of discharge			No discharge occ	urred from this mo	onitoring location			
	рН	рН	caused by 38.4mm in a 5 Day								
	рН	рН	consecutive period								
	TSS	mg/L									



Noise Monitoring

Table 6 – Noise Monitoring (Attended – Measured)

MCC ID	Date	Start Time	Wind Speed (m/s)	MCCP LAeq _{15min} dB	Limit L _{Aeq} _{15min} (dB) Operations Criteria	MCCP LAeq _{1min} dB	Limit L _{A1 (1 min)} (dB) Operations Criteria	Weather Rain (mm)	Exceedance (Yes / No)
NM1	5/07/2023	22:30	0.4	<20	35	<20	45	0.0	No
NM2	5/07/2023	23:30	0.3	IA	39	IA	45	0.0	No
NM3	6/07/2023	00:23	0.2	IA	35	IA	45	0.0	No
NM4	5/07/2023	23:02	1.2	IA	35	IA	45	0.0	No
NM5	5/07/2023	22:00	0.1	IA	35	IA	45	0.0	No
NM6	5/07/2023	23:58	0.3	IA	35	IA	45	0.0	No

Table 7 - Noise Monitoring (Attended - Low Frequency Assessment)

None of the measurements satisfied the conditions for further assessment when assessed for the applicability of low frequency modification factors in accordance with the EPA's Noise Policy for Industry. Therefore, no further assessment of low frequency noise was required to be undertaken.



Blast Monitoring

Table 8 – Blast Monitoring (Blasts – Limits Apply)

Location	Parameter	Units	Frequency	Number	Average	Max	100% Limit	Exceedance (Yes / No)
Operations	Overpressure	Db (Lin Peak)		11	85.77	117.40	120	No
Blasts	Vibration	mm/s	All	11	0.12	0.58	10	No

Note: As of March 2018, in accordance with the requirements of the approved variation of EPL 20221; M7.1 blast monitoring results are for four blast monitoring points 31 (BM1), 32 (BM2), 33 (BM3) and 34 (BM4).



Air Quality Monitoring

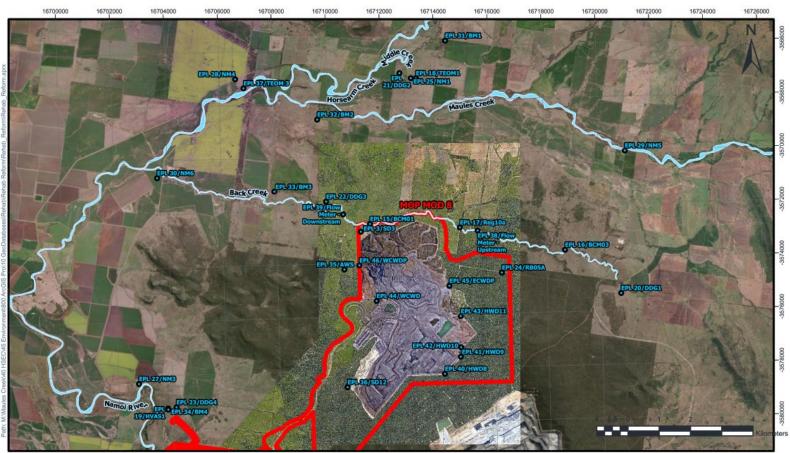
Table 9 – PM₁₀ (Limits Apply)

ID EPL (Site)	Sample period	Unit	Parameter	Rolling Annual Average	NEPM Annual Criteria	Exceedance (Yes / No)
18 (TEOM1)	Continuous	μg/m³ month	PM ₁₀	8.5	30	No
37 (TEOM3)	Continuous	μg/m³ month	PM ₁₀	13.1	30	No
19 (HVAS)	5 days	μg/m³	PM ₁₀	11.4	30	No

Table 10 – Depositional Dust (Limits Apply)

ID EPL (Site)	Sample period	Particulates Deposited Matter	Rolling Annual Average Insoluble Solids	Criteria	Exceedance (Yes / No)
20 (DDG1/MC1)	Monthly	g/m² month	1.6	4	No
21 (DDG2/MC2)	Monthly	g/m² month	1.8	4	No
22 (DDG3/MC3)	Monthly	g/m² month	2.5	4	No
23 (DDG4/MC4)	Monthly	g/m² month	1.3	4	No

Figure 1 – EPL 20221 Monitoring Locations



EPL20221 Monitoring Locations - 2/08/2022

Legend

EPL Monitoring locations

05 Project Boundary_Boundaries

MCCM Project Boundary (Mod 8)

Scale: 1:88,442

Author: shenanewman

Date Exported: 16/09/2022 11:51 AM

Spatial Reference Name: GDA2020 MGA Zone 56



Maules Creek Coal

Disclaimer: Map for reference only and subject to survey. MCC makes no guarantee of the accuracy of this map and data within. MCC shall have no liability for any decisions made or actions taken based upon this map.



MAULES CREEK COAL MINE - MONTHLY MONITORING SUMMARY

Site Information

EPL No: 20221

EPA Website Link: <u>Hyperlink to Maules Creek Coal, Environment Protection Licence</u>

Licensee: Maules Creek Coal Mine Pty Ltd

Licensee Address: Maules Creek Coal Mine, Therribri Road, BOGGABRI NSW 2382

EPL Monitoring Points: See Figure 1 below

Sampling Period: August 2023

Obtained Date: 16th September 2023 **Publication Date:** 18th September 2023

Context: This Monthly Monitoring Summary aligns with the Environment Protection Licence (EPL) No. 20221 – Maules Creek Coal Mine issued 4th August 2023 by the NSW Environment Protection Authority (EPA).



Monthly Monitoring Summary

Ground Water Monitoring

Table 1 - Groundwater Quality Monitoring

ID EPL (Bore)	Parameters	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value	
15	рН	рН								
15 (DCM01)	Conductivity	μs/cm	Quarterly	0						
(BCM01)	TDS	mg/L								
4.0	pН	рН								
16 C (BCM03)	Conductivity	μs/cm	Quarterly	0						
(BCIVIU3)	TDS	mg/L	1			N.	aut Camania Camtamaha	- 2022		
17	pН	рН				IV	ext Sample Septembe	r 2023		
17	Conductivity	μs/cm	Quarterly	0						
(REG10A)	TDS mg/L									
2.4	pН	рН								
24	Conductivity	μs/cm	Quarterly	0						
(RB05A)	TDS	mg/L	1							

Surface Water Monitoring

Table 2 - Surface Water Monitoring - Mine Void

ID	Parameter	Units	Frequency	Samples	Date	Laboratory Results	Min	Mean	Max / Only Value	
EPL (Site)						Received				
12	TSS	mg/L								
(Mine Void)	Conductivity	μs/cm	Every 2	0	Next Sample September 2023					
	Oil & Grease	mg/L	months							
	рH	рН								



Table 3 - Wet Weather Discharge - Surface Water Monitoring

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value
	Conductivity	μs/cm								
	Nitrate	mg/L	Constal							
	Nitrogen (total)	mg/L	Special							
3	Oil & Grease	mg/L	Frequency 1 - within 12							
(SD3)	рН	рН	hours of							
(303)	Phosphorous	mg/L	discharge from							
	Reactive Phosphorous	mg/L	EPL 3 or 36.							
	TSS	mg/L								
	Conductivity	μs/cm				No discharge o	ccurred from this	monitoring locati	on	
	Nitrate	mg/L								
	Nitrogen (total)	mg/L	Special							
	Oil & Grease	mg/L	Frequency 1 -							
36	рН	рН	within 12							
(SD12)	Phosphorous	mg/L	hours of							
	Reactive Phosphorous	mg/L	discharge from EPL 3 or 36							
	TSS	mg/L								
	Conductivity	μs/cm								



Table 4 - Clean Water Discharge - Surface Water Monitoring

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value		
	Conductivity	μs/cm										
	Nitrate	mg/L	Special									
	Nitrogen (total)	mg/L	Frequency 3 -									
38	Oil & Grease	mg/L	within 12									
(Flow Meter	рН	рН	hours of									
Upstream)	Phosphorous	mg/L	discharge from any									
	Reactive Phosphorous	mg/L	discharge location.									
	TSS	mg/L	location.	No discharge occurred during the reporting month								
	Conductivity	μs/cm				No discharge occ	curred during the	reporting month				
	Nitrate	mg/L	Special									
	Nitrogen (total)	mg/L	Frequency 3 -									
39	Oil & Grease	mg/L	within 12									
(Flow Meter	рН	рН		ours of charge								
downstream)	Phosphorous	mg/L		discharge								
	Reactive	mg/L	— discharge from any discharge									
	Phosphorous		location.									
	TSS	mg/L										
	TSS	mg/L	Special Frequency 2 - prior to									
40	Conductivity	μs/cm	discharging from EPL 45 and/or 46 or within	ging L 45 I6 or								
(HWD8)	Oil & Grease	mg/L	No discharge occurred from these monitoring locations discharge caused by 38.4mm in a									
	рН	рН	5 Day consecutive period	m in a lay cutive								



				Laboratory Min Mean Median Max / Only Results									
ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value			
	TSS	mg/L	Special Frequency 2 - prior to discharging										
41	Conductivity	μs/cm	from EPL 45 and/or 46 or within										
(HWD9)	Oil & Grease	mg/L	12hours of discharge caused by 38.4mm in a										
	рН	рН	5 Day consecutive period										
	TSS	mg/L	Special Frequency 2 – prior to discharging										
42	Conductivity	μs/cm	from EPL 45 and/or 46 or within										
(HWD10)	Oil & Grease	mg/L	12hours of discharge caused by 38.4mm in a										
	рН	рН	5 Day consecutive period										
43	TSS	mg/L	Special Frequency 2 – prior to – discharging			No discharge acc	urred from this mo	onitoring location					
(HWD11)	Conductivity	μs/cm	from EPL 45 and/or 46 or within			ind discridinge occ	urreu irom tins mo	onitoring location					



ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value		
	Oil & Grease	mg/L	12hours of discharge caused by 38.4mm in a									
	рН	рН	5 Day consecutive period									
	TSS	mg/L	Special									
	Conductivity	μs/cm	Frequency 2 - prior to discharging from EPL 45									
44 (WCWD)	Oil & Grease	mg/L	and/or 46 or within 12hours of discharge			No discharge occ	urred from this mo	onitoring location				
	рН	рН	caused by 38.4mm in a 5 Day									
	рН	рН	consecutive period									
	TSS	mg/L	1									



Noise Monitoring

Table 6 – Noise Monitoring (Attended – Measured)

MCC ID	Date	Start Time	Wind Speed (m/s)	MCCP LAeq _{15min} dB	Limit L _{Aeq} _{15min} (dB) Operations Criteria	MCCP LAeq _{1min} dB	Limit L _{A1 (1 min)} (dB) Operations Criteria	Weather Rain (mm)	Exceedance (Yes / No)
NM1	3/08/2023	22:30	0.4	IA	35	IA	45	0.0	No
NM2	3/08/2023	23:30	0.3	<20	39	<20	45	0.0	No
NM3	4/08/2023	00:21	0.6	<20	35	<20	45	0.0	No
NM4	3/08/2023	23:00	0.5	IA	35	IA	45	0.0	No
NM5	3/08/2023	22:00	0.4	IA	35	IA	45	0.0	No
NM6	3/08/2023	23:55	0.3	IA	35	IA	45	0.0	No

Table 7 - Noise Monitoring (Attended - Low Frequency Assessment)

None of the measurements satisfied the conditions for further assessment when assessed for the applicability of low frequency modification factors in accordance with the EPA's Noise Policy for Industry. Therefore, no further assessment of low frequency noise was required to be undertaken.



Blast Monitoring

Table 8 – Blast Monitoring (Blasts – Limits Apply)

Location	Parameter	Units	Frequency	Number	Average	Max	100% Limit	Exceedance (Yes / No)
Operations	Overpressure	Db (Lin Peak)		11	92.08	108.60	120	No
Blasts	Vibration	mm/s	All	11	0.19	0.80	10	No

Note: As of March 2018, in accordance with the requirements of the approved variation of EPL 20221; M7.1 blast monitoring results are for four blast monitoring points 31 (BM1), 32 (BM2), 33 (BM3) and 34 (BM4).



Air Quality Monitoring

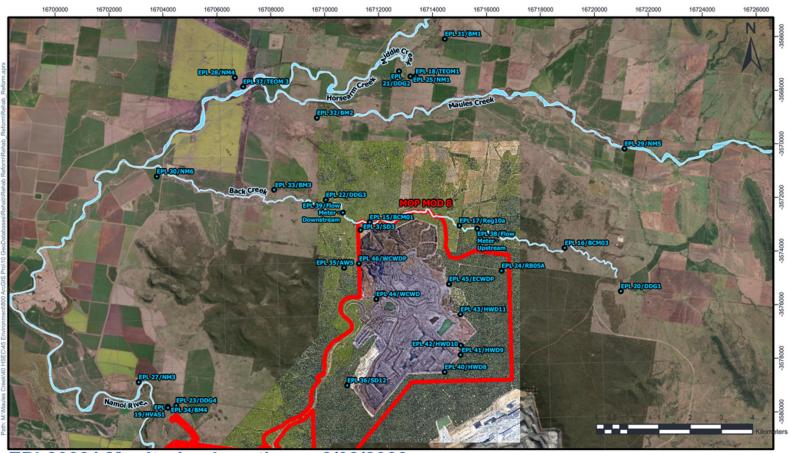
Table 9 – PM_{10} (Limits Apply)

ID EPL (Site)	Sample period	Unit	Parameter	Rolling Annual Average	NEPM Annual Criteria	Exceedance (Yes / No)
18 (TEOM1)	Continuous	μg/m³ month	PM ₁₀	8.8	30	No
37 (TEOM3)	Continuous	μg/m³ month	PM ₁₀	12.9	30	No
19 (HVAS)	5 days	μg/m³	PM ₁₀	12.5	30	No

Table 10 – Depositional Dust (Limits Apply)

ID EPL (Site)	Sample period	Particulates Deposited Matter	Rolling Annual Average Insoluble Solids	Criteria	Exceedance (Yes / No)
20 (DDG1/MC1)	Monthly	g/m² month	1.4	4	No
21 (DDG2/MC2)	Monthly	g/m² month	1.8	4	No
22 (DDG3/MC3)	Monthly	g/m² month	2.5	4	No
23 (DDG4/MC4)	Monthly	g/m² month	1.2	4	No

Figure 1 – EPL 20221 Monitoring Locations



EPL20221 Monitoring Locations - 2/08/2022

Legend

EPL Monitoring locations

05 Project Boundary_Boundaries

MCCM Project Boundary (Mod 8)

Scale: 1:88,442

Author: shenanewman

Date Exported: 16/09/2022 11:51 AM

Spatial Reference Name: GDA2020 MGA Zone 56



Maules Creek Coal

Disclaimer: Map for reference only and subject to survey. MCC makes no guarantee of the accuracy of this map and data within. MCC shall have no liability for any decisions made or actions taken based upon this map.



MAULES CREEK COAL MINE - MONTHLY MONITORING SUMMARY

Site Information

EPL No: 20221

EPA Website Link: <u>Hyperlink to Maules Creek Coal, Environment Protection Licence</u>

Licensee: Maules Creek Coal Mine Pty Ltd

Licensee Address: Maules Creek Coal Mine, Therribri Road, BOGGABRI NSW 2382

EPL Monitoring Points: See Figure 1 below

Sampling Period: September 2023
Obtained Date: 15th October 2023
Publication Date: 18th October 2023

Context: This Monthly Monitoring Summary aligns with the Environment Protection Licence (EPL) No. 20221 – Maules Creek Coal Mine issued 4th August 2023 by the NSW Environment Protection Authority (EPA).



Monthly Monitoring Summary

Ground Water Monitoring

Table 1 - Groundwater Quality Monitoring

ID EPL (Bore)	Parameters	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value		
15	рН	рН									
15 (BCM01)	Conductivity	μs/cm	Quarterly	0			Dry				
(BCM01)	TDS	mg/L									
4.6	рН	рН									
16	Conductivity	μs/cm	Quarterly	0	Dry						
(BCM03)	TDS	mg/L									
17	pН	рН									
17	Conductivity	μs/cm	Quarterly	0			Dry				
(REG10A)	TDS	mg/L	1								
2.4	рН	рН							7.69		
24	Conductivity	μs/cm	Quarterly	1	31/8/23	Yes			1820		
(RB05A)	TDS	mg/L							1150		

Surface Water Monitoring

Table 2 - Surface Water Monitoring - Mine Void

ID	Parameter	Units	Frequency	Samples	Date	Laboratory Results	Min	Mean	Max / Only
EPL (Site)						Received			Value
12	TSS	mg/L			14/9/23	Yes			8
(Mine Void)	Conductivity	μs/cm	Every 2	1					1310
	Oil & Grease	mg/L	months						<5
	рН	рН							8.17



Table 3 - Wet Weather Discharge - Surface Water Monitoring

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value
	Conductivity	μs/cm								
	Nitrate	mg/L	Charial							
	Nitrogen (total)	mg/L	Special Frequency 1 -							
3	Oil & Grease	mg/L	within 12							
(SD3)	рН	рН	hours of							
(303)	Phosphorous	mg/L	discharge from							
	Reactive	mg/L	EPL 3 or 36.							
	Phosphorous									
	TSS	mg/L								
	Conductivity	μs/cm				No discharge o	ccurred from this	monitoring locati	on	
	Nitrate	mg/L								
	Nitrogen (total)	mg/L	Special							
	Oil & Grease	mg/L	Frequency 1 -							
36	рН	рН	within 12							
(SD12)	Phosphorous	mg/L	hours of							
	Reactive	mg/L	discharge from							
	Phosphorous		EPL 3 or 36							
	TSS	mg/L								
	Conductivity	μs/cm								



Table 4 - Clean Water Discharge - Surface Water Monitoring

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value
	Conductivity	μs/cm								
	Nitrate	mg/L	Special							
	Nitrogen (total)	mg/L	Frequency 3 -							
38	Oil & Grease	mg/L	within 12							
(Flow Meter	рН	рН	hours of							
Upstream)	Phosphorous	mg/L	discharge from any							
	Reactive Phosphorous	mg/L	discharge location.							
	TSS	mg/L	location.							
	Conductivity	μs/cm				No discharge occ	curred during the	reporting month		
	Nitrate	mg/L	Special							
	Nitrogen (total)	mg/L	Frequency 3 -							
39	Oil & Grease	mg/L	within 12							
(Flow Meter	рН	рН	hours of							
downstream)	Phosphorous	mg/L	discharge from any							
	Reactive	mg/L	discharge							
	Phosphorous		location.							
	TSS	mg/L								
	TSS	mg/L	Special Frequency 2 - prior to							
40	Conductivity	μs/cm	discharging from EPL 45 and/or 46 or within			No discharge ossu	rrad from those m	nonitoring locations		
(HWD8)	Oil & Grease	mg/L	12hours of discharge caused by 38.4mm in a			ivo discilalge occul	nea nom mese m	ionitoring locations		
	рН	рН	5 Day consecutive period							



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ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value			Max / Only Value		
	TSS	mg/L	Special Frequency 2 - prior to discharging									
41	Conductivity	μs/cm	from EPL 45 and/or 46 or within									
(HWD9)	Oil & Grease	mg/L	12hours of discharge caused by 38.4mm in a									
	рН	рН	5 Day consecutive period									
	TSS	mg/L	Special Frequency 2 – prior to discharging									
42	Conductivity	μs/cm	from EPL 45 and/or 46 or within									
(HWD10)	Oil & Grease	mg/L	12hours of discharge caused by 38.4mm in a									
	рН	рН	5 Day consecutive period									
43	TSS	mg/L	Special Frequency 2 - prior to			N. 15. 1	16 11:					
(HWD11)	Conductivity	μs/cm	discharging from EPL 45 and/or 46 or within			No discharge occ	curred from this mo	onitoring location				



ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value
	Oil & Grease	mg/L	12hours of discharge caused by 38.4mm in a							
	рН	рН	5 Day consecutive period							
	TSS	mg/L	Special							
	Conductivity	μs/cm	Frequency 2 - prior to discharging from EPL 45							
44 (WCWD)	Oil & Grease	mg/L	and/or 46 or within 12hours of discharge			No discharge occ	urred from this mo	onitoring location		
	рН	рН	caused by 38.4mm in a 5 Day							
	рН	рН	consecutive period							
	TSS	mg/L								



Noise Monitoring

Table 6 – Noise Monitoring (Attended – Measured)

MCC ID	Date	Start Time	Wind Speed (m/s)	MCCP LAeq _{15min} dB	Limit L _{Aeq} _{15min} (dB) Operations Criteria	MCCP LAeq _{1min} dB	Limit L _{A1 (1 min)} (dB) Operations Criteria	Weather Rain (mm)	Exceedance (Yes / No)
NM1	18/09/23	22:31	0.4	IA	35	IA	45	0.0	No
NM2	18/09/23	23:30	0.3	IA	39	IA	45	0.0	No
NM3	18/09/23	23:53	0.6	<25	35	<25	45	0.0	No
NM4	18/09/23	23:00	0.5	IA	35	IA	45	0.0	No
NM5	18/09/23	22:00	0.4	IA	35	IA	45	0.0	No
NM6	18/09/23	23:55	0.3	IA	35	IA	45	0.0	No

Table 7 - Noise Monitoring (Attended - Low Frequency Assessment)

None of the measurements satisfied the conditions for further assessment when assessed for the applicability of low frequency modification factors in accordance with the EPA's Noise Policy for Industry. Therefore, no further assessment of low frequency noise was required to be undertaken.



Blast Monitoring

Table 8 – Blast Monitoring (Blasts – Limits Apply)

Location	Parameter	Units	Frequency	Number	Average	Max	100% Limit	Exceedance (Yes / No)
Operations	Overpressure	Db (Lin Peak)		11	90.47	109.00	120	No
Blasts	Vibration	mm/s	All	11	0.13	0.40	10	No

Note: As of March 2018, in accordance with the requirements of the approved variation of EPL 20221; M7.1 blast monitoring results are for four blast monitoring points 31 (BM1), 32 (BM2), 33 (BM3) and 34 (BM4).



Air Quality Monitoring

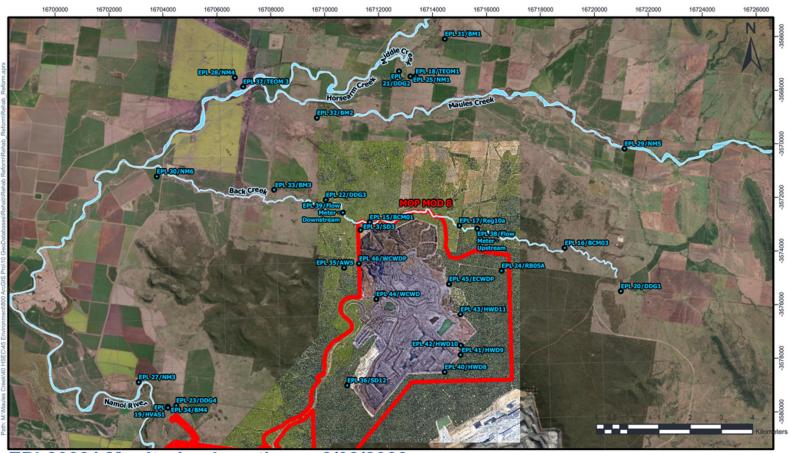
Table 9 – PM_{10} (Limits Apply)

ID EPL (Site)	Sample period	Unit	Parameter	Rolling Annual Average	NEPM Annual Criteria	Exceedance (Yes / No)
18 (TEOM1)	Continuous	μg/m³ month	PM ₁₀	9.7	30	No
37 (TEOM3)	Continuous	μg/m³ month	PM ₁₀	12.9	30	No
19 (HVAS)	5 days	μg/m³	PM ₁₀	12.8	30	No

Table 10 – Depositional Dust (Limits Apply)

ID EPL (Site)	Sample period	Particulates Deposited Matter	Rolling Annual Average Insoluble Solids	Criteria	Exceedance (Yes / No)
20 (DDG1/MC1)	Monthly	g/m² month	1.5	4	No
21 (DDG2/MC2)	Monthly	g/m² month	2.0	4	No
22 (DDG3/MC3)	Monthly	g/m² month	2.5	4	No
23 (DDG4/MC4)	Monthly	g/m² month	1.2	4	No

Figure 1 – EPL 20221 Monitoring Locations



EPL20221 Monitoring Locations - 2/08/2022

Legend

EPL Monitoring locations

05 Project Boundary_Boundaries

MCCM Project Boundary (Mod 8)

Scale: 1:88,442

Author: shenanewman

Date Exported: 16/09/2022 11:51 AM

Spatial Reference Name: GDA2020 MGA Zone 56



Maules Creek Coal

Disclaimer: Map for reference only and subject to survey. MCC makes no guarantee of the accuracy of this map and data within. MCC shall have no liability for any decisions made or actions taken based upon this map.



MAULES CREEK COAL MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 20221

EPA Website Link: <u>Hyperlink to Maules Creek Coal, Environment Protection Licence</u>

Licensee: Maules Creek Coal Mine Pty Ltd

Licensee Address: Maules Creek Coal Mine, Therribri Road, BOGGABRI NSW 2382

EPL Monitoring Points: See Figure 1 below

Sampling Period: October 2023
Obtained Date: 15th November 2023
Publication Date: 16th November 2022

Context: This Monthly Monitoring Summary aligns with the Environment Protection Licence (EPL) No. 20221 – Maules Creek Coal Mine issued 2nd August 2022 by the NSW Environment Protection Authority (EPA).



Monthly Monitoring Summary

Ground Water Monitoring

Table 1 - Groundwater Quality Monitoring

ID EPL (Bore)	Parameters	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value			
	рН	рН										
15 (BCM01)	Conductivity	μs/cm	Quarterly									
(BCIVIOT)	TDS	mg/L										
	рН	рН										
16 (BCM02)	Conductivity	μs/cm	Quarterly	Next sample in December 2023								
(BCM03)	TDS	mg/L	1									
	рH	рН										
17 (DEC10A)	Conductivity	μs/cm	Quarterly									
(REG10A)	TDS	mg/L		eriy								
	рН	рН		rly								
24 (DDOF A)	Conductivity	μs/cm	Quarterly									
(RB05A)	TDS	mg/L	1									



Surface Water Monitoring

Table 2 - Surface Water Monitoring - Mine Void

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value
	TSS	mg/L							<5
12	Conductivity	μs/cm	Every 2	1	11/10/2022	15/11/2022	NIA	NIA	1340
(Mine Void)	Oil & Grease	mg/L	months	′ 1 1	11/10/2023	15/11/2023	NA	NA	<5
	рН	рН							8.06

Table 3 - Wet Weather Discharge - Surface Water Monitoring

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value
	Conductivity	μs/cm								
	Nitrate	mg/L	Constal							
	Nitrogen (total)	mg/L	Special							
3	Oil & Grease	mg/L	Frequency 1 -							
(SD3)	рH	рН	within 12 hours of							
(303)	Phosphorous	mg/L	discharge from							
	Reactive Phosphorous	mg/L	EPL 3 or 36.							
	TSS	mg/L								
	Conductivity	μs/cm				No discharge od	ccurred from this	monitoring locati	on	
	Nitrate	mg/L								
	Nitrogen (total)	mg/L	Special							
	Oil & Grease	mg/L	Frequency 1 -							
36	pH	рН	within 12							
(SD12)	Phosphorous	mg/L	hours of							
	Reactive	mg/L	discharge from							
	Phosphorous		EPL 3 or 36							
	TSS	mg/L								
	Conductivity	μs/cm								



Table 4 – Clean Water Discharge - Surface Water Monitoring

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value	
	Conductivity	μs/cm									
	Nitrate	mg/L									
20	Nitrogen (total)	mg/L	Special Frequency								
38 (Flow Meter	Oil & Grease	mg/L	3 -within 12 hours								
Upstream)	рН	рН	of discharge from								
Opstream)	Phosphorous	mg/L	any discharge								
	Reactive Phosphorous	mg/L	location.								
	TSS	mg/L				N 1 12 1					
	Conductivity	μs/cm				No discharge	occurred during th	e reporting month	l		
	Nitrate	mg/L	1								
	Nitrogen (total)	mg/L	Special Frequency								
39	Oil & Grease	mg/L	3 -within 12 hours	purs							
(Flow Meter	рН	рН	of discharge from								
downstream)	Phosphorous	mg/L	any discharge								
	Reactive		location.								
	Phosphorous	mg/L									
	TSS	mg/L									
	TSS	mg/L	Special Frequency								
40	Conductivity	μs/cm	2 – prior to discharging from EPL 45 and/or 46 or			No discharge os	curred from these	monitoring location	ne.		
(HWD8)	Oil & Grease	mg/L	within 12hours of discharge caused by 38.4mm in a 5 Day consecutive			ino discualde oc	curred from these	monitoring location	nis		
	рН	рН	period								



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ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value
	TSS	mg/L	Special Frequency 2 – prior to discharging from							
41	Conductivity	μs/cm	EPL 45 and/or 46 or							
(HWD9)	Oil & Grease	mg/L	within 12hours of discharge caused by 38.4mm in a 5							
	рН	рН	Day consecutive period							
	TSS	mg/L	Special Frequency 2 – prior to							
42 (HWD10)	Conductivity	μs/cm	discharging from EPL 45 and/or 46 or within 12hours of							
	Oil & Grease	mg/L	discharge caused by 38.4mm in a 5 Day consecutive period							
	pH	рН	Paria							
	TSS	mg/L	Special Frequency							
43	Conductivity	μs/cm	2 – prior to discharging from EPL 45 and/or 46 or			No disabaysa a	accurred from this	monitoring locatio	_	
(HWD11)	Oil & Grease	mg/L	within 12hours of discharge caused by 38.4mm in a 5			ivo discharge o	ccurred from this	monitoring locatio		
	рН	Day consecutive period								



ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value
44 (WCWD)	TSS	mg/L	Special Frequency 2 – prior to discharging from EPL 45 and/or 46 or within 12hours of discharge caused by 38.4mm in a 5 Day consecutive period			No discharge o	ccurred from this	monitoring location	า	

Noise Monitoring

Table 6 – Noise Monitoring (Attended – Measured)

MCC ID	Date	Start Time	Wind Speed (m/s)	MCCP LAeq _{15min} dB	Limit L _{Aeq} _{15min} (dB) Operations Criteria	MCCP LAeq _{1min} dB	Limit L _{A1 (1 min)} (dB) Operations Criteria	Weather Rain (mm)	Exceedance (Yes / No)
NM1	18/10/2023	22:30	3.3	IA	35	IA	45	0.0	No
NM2	18/10/2023	23:30	3.3	<20	39	25	45	0.0	No
NM3	19/10/2023	00:19	2.8	<25	35	27	45	0.0	No
NM4	18/10/2023	23:00	1.6	<20	35	<20	45	0.0	No
NM5	18/10/2023	22:00	3.9	IA	35	IA	45	0.0	No
NM6	18/10/2023	23:55	3.2	IA	35	IA	45	0.0	No

MCC ID = Locations as per the EPL No.20221.

ND = No data due to high prevailing winds during the attended noise monitoring event.

Italicised text indicates wind speed exceeds the 3.0m/s maximum for noise monitoring.

NM = Not Measurable. If site noise is noted as NM, <20 dB or <30 dB, this means some noise was audible but could not be quantified.

IA = Site noise was inaudible at the monitoring location.

N/A in exceedance column means criterion was not applicable due to atmospheric conditions outside those specified in the project approval.



Table 7 - Noise Monitoring (Attended - Low Frequency Assessment)

None of the measurements satisfied the conditions for further assessment when assessed for the applicability of low frequency modification factors in accordance with the EPA's Noise Policy for Industry. Therefore, no further assessment of low frequency noise was required to be undertaken.



Blast Monitoring

Table 8 - Blast Monitoring (Blasts - Limits Apply)

Location	Parameter	Units	Frequency	Number	Average	Max	100% Limit	Exceedance (Yes / No)
Operations	Overpressure	Db (Lin Peak)	All	9	94.7	108.3	120	No
Blasts	Vibration	mm/s	All	9	0.17	0.52	10	No

Note: As of March 2018, in accordance with the requirements of the approved variation of EPL 20221; M7.1 blast monitoring results are for four blast monitoring points 31 (BM1), 32 (BM2), 33 (BM3) and 34 (BM4).



Air Quality Monitoring

Table 9 – PM_{10} (Limits Apply)

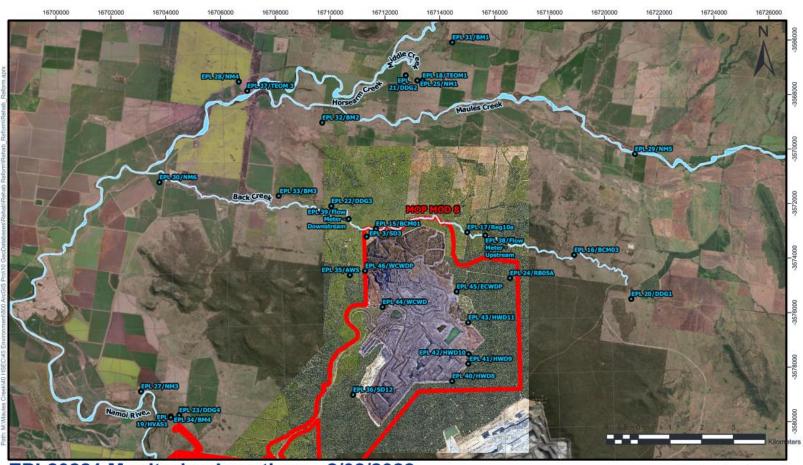
ID EPL (Site)	Sample period	Unit	Parameter	Rolling Annual Average	NEPM Annual Criteria	Exceedance (Yes / No)
18 (TEOM1)	Continuous	μg/m³ month	PM ₁₀	10.4	30	No
37 (TEOM3)	Continuous	μg/m³ month	PM ₁₀	13.2	30	No
19 (HVAS)	5 days	μg/m³	PM ₁₀	14.0	30	No

Table 10 – Depositional Dust (Limits Apply)

ID EPL (Site)	Sample period	Particulates Deposited Matter	Rolling Annual Average Insoluble Solids	Criteria	Exceedance (Yes / No)
20 (DDG1/MC1)	Monthly	g/m² month	1.5	4	No
21 (DDG2/MC2)	Monthly	g/m² month	2.1	4	No
22 (DDG3/MC3)	Monthly	g/m² month	2.5	4	No
23 (DDG4/MC4)	Monthly	g/m² month	1.3	4	No



Figure 1 – EPL 20221 Monitoring Locations



EPL20221 Monitoring Locations - 2/08/2022

Legend

EPL Monitoring locations

05 Project Boundary_Boundaries

MCCM Project Boundary (Mod 8)

Maules Creek Coal

Scale: 1:88,442 Author: shenanewman Date Exported: 16/09/2022 11:51 AM

Spatial Reference Name: GDA2020 MGA Zone 56



Disclaimer, Map for reference only and subject to survey. MCC makes no guarantee of the accuracy of this map and data within. MCC shall have no liability for any decisions made or actions taken based upon this map.



MAULES CREEK COAL MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 20221

EPA Website Link: <u>Hyperlink to Maules Creek Coal, Environment Protection Licence</u>

Licensee: Maules Creek Coal Mine Pty Ltd

Licensee Address: Maules Creek Coal Mine, Therribri Road, BOGGABRI NSW 2382

EPL Monitoring Points: See Figure 1 below

Sampling Period: November 2023
Obtained Date: 15th December 2023
Publication Date: 18th December 2023

Context: This Monthly Monitoring Summary aligns with the Environment Protection Licence (EPL) No. 20221 – Maules Creek Coal Mine issued 2nd August 2022 by the

NSW Environment Protection Authority (EPA).



Monthly Monitoring Summary

Ground Water Monitoring

Table 1 - Groundwater Quality Monitoring

ID EPL (Bore)	Parameters	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value	
	рН	рН								
15 (BCM01)	Conductivity	μs/cm	Quarterly							
(BCIVIOI)	TDS	mg/L	1							
	рH	рН								
16 (BCM02)	Conductivity	μs/cm	Quarterly							
(BCM03)	TDS	mg/L								
	рH	рН				Next sample	in December 2023			
17 (REG10A)	Conductivity	μs/cm	Quarterly							
(REGIOA)	TDS	mg/L								
	рН	рН								
24 (BBOE A)	Conductivity	μs/cm	Quarterly							
(RB05A)	TDS	mg/L	1							



Surface Water Monitoring

Table 2 - Surface Water Monitoring - Mine Void

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value
	TSS	mg/L							65
12	Conductivity	μs/cm	Every 2	4	00/11/22	45/42/2022	N1/A	NI/A	1310
(Mine Void)	Oil & Grease	mg/L	months	1	08/11/23	15/12/2023	N/A	N/A	<5
	рН	рН							8.2

Table 3 - Wet Weather Discharge - Surface Water Monitoring

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value
	Conductivity	μs/cm								
	Nitrate	mg/L	Special							
	Nitrogen (total)	mg/L	Frequency 1 -							
3	Oil & Grease	mg/L	within 12							
(SD3)	pH	pH	hours of							
(303)	Phosphorous	mg/L								
	Reactive Phosphorous	mg/L	discharge from EPL 3 or 36.							
	TSS	mg/L]							
	Conductivity	μs/cm				No discharge occur	rred at these locat	tions in Novembe	r 2023	
	Nitrate	mg/L								
	Nitrogen (total)	mg/L	Special							
	Oil & Grease	mg/L	Frequency 1 -							
36	рН	рН	within 12							
(SD12)	Phosphorous	mg/L	hours of							
	Reactive	mg/L	discharge from EPL 3 or 36							
	Phosphorous									
	TSS	mg/L								
	Conductivity	μs/cm								



Table 4 - Clean Water Discharge - Surface Water Monitoring

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value
	Conductivity	μs/cm								
	Nitrate	mg/L								
	Nitrogen (total)	mg/L								
	Oil & Grease	mg/L								
	рН	рН								
	Phosphorous	mg/L	Special							
38	Reactive Phosphorous	mg/L	Frequency 3 - within 12							
(Flow Meter	TSS	mg/L	hours of							
Upstream)	Conductivity	μs/cm	discharge							
	Nitrate	mg/L	from any							
	Nitrogen (total)	mg/L	discharge							
	Oil & Grease	mg/L	location.							
	pН	pН								
	Phosphorous	mg/L								
	Reactive	mg/L								
	Phosphorous		_		N	o discharge occurre	ed at these location	ns in November 20	23	
	TSS	mg/L								
	Conductivity	μs/cm	4							
	Nitrate	mg/L	4							
	Nitrogen (total) Oil & Grease	mg/L	-							
	pH	mg/L pH	-							
	Phosphorous	mg/L	Special							
20	Reactive	mg/L	Frequency 3 - within 12							
39 (Flow Meter	Phosphorous TSS	mg/L	hours of							
downstream)	Conductivity	μs/cm	discharge							
downstreami	Nitrate	mg/L	from any							
	Nitrogen (total)	mg/L	discharge							
	Oil & Grease	mg/L	location.							
	pH	pH	†							
	Phosphorous	mg/L	†							
	Reactive Phosphorous	mg/L	1							



	TSS	mg/L		
	TSS	mg/L	Special Frequency 2	
	Conductivity	μs/cm	prior todischarging	
40	Oil & Grease	mg/L	from EPL 45 and/or 46 or within	
(HWD8)	рН	рН	12hours of discharge caused by 38.4mm in a 5 Day consecutive period	
	TSS	mg/L		
	Conductivity	μs/cm	Special Frequency 2	
	Oil & Grease	mg/L	– prior todischargingfrom EPL 45	
41	рН	рН	and/or 46 or within	
(HWD9)	TSS	mg/L	12hours of discharge	
	Conductivity	μs/cm	caused by 38.4mm in a	No discharge occurred at these locations in November 2023
	Oil & Grease	mg/L	5 Day consecutive period	
	рН	рН		
	TSS	mg/L	Special Frequency 2	
42 (HWD10)	Conductivity	μs/cm	prior todischarging	
	Oil & Grease	mg/L	from EPL 45 and/or 46 or	



				WHITEHAVEN
	рН	рН	within 12hours of discharge caused by 38.4mm in a 5 Day consecutive period	
	TSS	mg/L		
	Conductivity	μs/cm	Special Frequency 2	
	Oil & Grease	mg/L	– prior todischargingfrom EPL 45	
43	рН	рН	and/or 46 or within	
(HWD11)	TSS	mg/L	12hours of discharge	
	Conductivity	μs/cm	caused by 38.4mm in a 5 Day	
	Oil & Grease	mg/L	consecutive period	No discharge occurred at these locations in November 2023
	рН	рН	·	No discharge occurred at these locations in November 2025
	TSS	mg/L	Special Frequency 2	
	Conductivity	μs/cm	prior todischarging	
44	Oil & Grease	mg/L	from EPL 45 and/or 46 or	
(WCWD)	рН	рН	within 12hours of	
	TSS	mg/L	discharge caused by 38.4mm in a	
	Conductivity	μs/cm	5 Day	



	1			
	Oil & Grease	mg/L	consecutive period	
	рН	рН		
	Oil & Grease	mg/L		
	рН	рН	not more	
45	TSS	mg/L	not more than 12 hours after	
(ECWDP)	Oil & Grease	mg/L	discharge commences	
	рН	рН	commences	
	TSS	mg/L		No discharge accurred at those locations in Newsmher 2022
	Oil & Grease	mg/L		No discharge occurred at these locations in November 2023
	рН	рН	not more	
46	TSS	mg/L	not more than 12	
(WCWDP)	Oil & Grease	mg/L	hours after discharge commences	
	рН	mg/L	Commences	
	TSS	рН		



Noise Monitoring

Table 6 - Noise Monitoring (Attended - Measured)

MCC ID	Date	Start Time	Wind Speed (m/s)	MCCP LAeq _{15min} dB	Limit L _{Aeq} _{15min} (dB) Operations Criteria	MCCP LAeq _{1min} dB	Limit L _{A1 (1 min)} (dB) Operations Criteria	Weather Rain (mm)	Exceedance (Yes / No)
NM1	8/11/2023	22:30	3.1	IA	35	IA	45	0.0	No
NM2	8/11/2023	23:30	4.1	IA	39	IA	45	0.0	No
NM3	9/11/2023	00:20	3.4	IA	35	IA	45	0.0	No
NM4	8/11/2023	23:00	3.4	IA	35	IA	45	0.0	No
NM5	8/11/2023	22:00	0.4	IA	35	IA	45	0.0	No
NM6	8/11/2023	23:55	3.7	NM	35	NM	45	0.0	No

MCC ID = Locations as per the EPL No.20221.

ND = No data due to high prevailing winds during the attended noise monitoring event.

Italicised text indicates wind speed exceeds the 3.0m/s maximum for noise monitoring.

NM = Not Measurable. If site noise is noted as NM, <20 dB or <30 dB, this means some noise was audible but could not be quantified.

IA = Site noise was inaudible at the monitoring location.

N/A in exceedance column means criterion was not applicable due to atmospheric conditions outside those specified in the project approval.

Table 7 - Noise Monitoring (Attended - Low Frequency Assessment)

None of the measurements satisfied the conditions for further assessment when assessed for the applicability of low frequency modification factors in accordance with the EPA's Noise Policy for Industry. Therefore, no further assessment of low frequency noise was required to be undertaken.



Blast Monitoring

Table 8 - Blast Monitoring (Blasts - Limits Apply)

Location	Parameter	Units	Frequency	Number	Average	Max	100% Limit	Exceedance (Yes / No)
Operations	Overpressure	Db (Lin Peak)	All	7	93.74	114.50	120	No
Blasts	Vibration	mm/s	All	7	0.11	0.27	10	No

Note: As of March 2018, in accordance with the requirements of the approved variation of EPL 20221; M7.1 blast monitoring results are for four blast monitoring points 31 (BM1), 32 (BM2), 33 (BM3) and 34 (BM4).



Air Quality Monitoring

Table 9 – PM_{10} (Limits Apply)

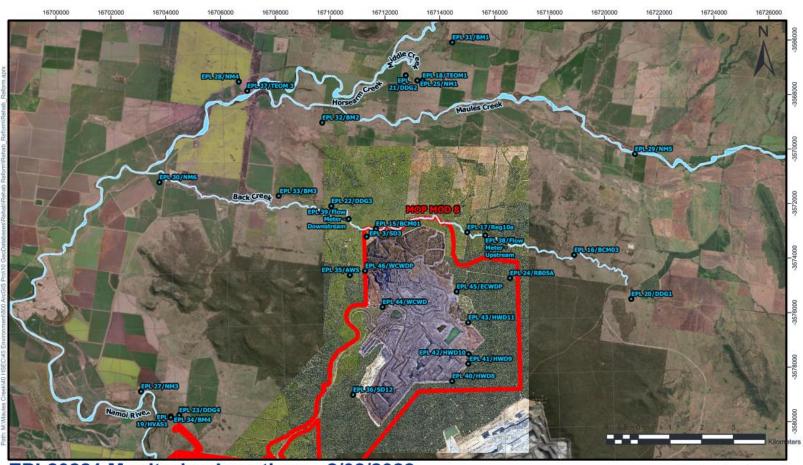
ID EPL (Site)	Sample period	Unit	Parameter	Rolling Annual Average	NEPM Annual Criteria	Exceedance (Yes / No)
18 (TEOM1)	Continuous	μg/m³ month	PM ₁₀	10.9	30	No
37 (TEOM3)	Continuous	μg/m³ month	PM ₁₀	13.6	30	No
19 (HVAS)	5 days	μg/m³	PM ₁₀	15.0	30	No

Table 10 – Depositional Dust (Limits Apply)

ID EPL (Site)	Sample period	Particulates Deposited Matter	Peposited Average		Exceedance (Yes / No)
20 (DDG1/MC1)	Monthly	g/m² month	1.5	4	No
21 (DDG2/MC2)	Monthly	g/m² month	2.1	4	No
22 (DDG3/MC3)	Monthly	g/m² month	2.5	4	No
23 (DDG4/MC4)	Monthly	g/m² month	1.2	4	No



Figure 1 – EPL 20221 Monitoring Locations



EPL20221 Monitoring Locations - 2/08/2022

Legend

EPL Monitoring locations

05 Project Boundary_Boundaries

MCCM Project Boundary (Mod 8)

Maules Creek Coal

Scale: 1:88,442 Author: shenanewman Date Exported: 16/09/2022 11:51 AM

Spatial Reference Name: GDA2020 MGA Zone 56



Disclaimer, Map for reference only and subject to survey. MCC makes no guarantee of the accuracy of this map and data within. MCC shall have no liability for any decisions made or actions taken based upon this map.



MAULES CREEK COAL MINE - MONTHLY MONITORING SUMMARY

Site Information

EPL No: 20221

EPA Website Link: <u>Hyperlink to Maules Creek Coal, Environment Protection Licence</u>

Licensee: Maules Creek Coal Mine Pty Ltd

Licensee Address: Maules Creek Coal Mine, Therribri Road, BOGGABRI NSW 2382

EPL Monitoring Points: See Figure 1 below

Sampling Period: December 2023 Obtained Date: 15th January 2024 Publication Date: 16th January 2024

Context: This Monthly Monitoring Summary aligns with the Environment Protection Licence (EPL) No. 20221 – Maules Creek Coal Mine issued 2nd August 2022 by the NSW Environment Protection Authority (EPA).



Monthly Monitoring Summary

Ground Water Monitoring

Table 1 - Groundwater Quality Monitoring

ID EPL (Bore)	Parameters	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value	
45	рН	рН								
15 (BCM01)	Conductivity	μs/cm	Quarterly	0			Dry			
(BCM01)	TDS	mg/L								
1.6	рН	рН								
16	Conductivity	μs/cm	Quarterly	0	Dry					
(BCM03)	TDS	mg/L								
47	рН	рН								
17	Conductivity	μs/cm	Quarterly	0	Dry					
(REG10A)	TDS	mg/L								
2.4	рН	рН							7.56	
24	Conductivity	μs/cm	Quarterly	1	29/11/23	Yes			1910	
(RB05A)	TDS	mg/L	i .						1140	



Surface Water Monitoring

Table 2 - Surface Water Monitoring - Mine Void

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min	Mean	Max / Only Value
	TSS	mg/L							
12	Conductivity	μs/cm	Every 2			Novt comple in language	. 2024		
(Mine Void)	Oil & Grease	mg/L	months			Next sample in Januar	y 2024		
	рH	рН							

Table 3 - Wet Weather Discharge - Surface Water Monitoring

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value	
	Conductivity	μs/cm									
	Nitrate	mg/L	Charial								
	Nitrogen (total)	(total) mg/L	Special								
3	Oil & Grease	mg/L	Frequency 1 - within 12								
(SD3)	рН	рН	hours of								
(3D3)	Phosphorous	mg/L	discharge from								
	Reactive Phosphorous	mg/L	EPL 3 or 36.								
	TSS	mg/L									
	Conductivity	μs/cm			No discharge occurred at these locations in December 2023						
	Nitrate	mg/L									
	Nitrogen (total)	mg/L	Special								
	Oil & Grease	mg/L	Frequency 1 -								
36	pН	pН	within 12								
(SD12)	<u> </u>	mg/L	hours of								
	Reactive	mg/L	discharge from								
	Phosphorous		EPL 3 or 36								
	TSS	mg/L									
	Conductivity	μs/cm									



Table 4 - Clean Water Discharge - Surface Water Monitoring

ID EPL (Site)	Parameter	Units	Frequency	Samples	Date	Laboratory Results Received	Min Value	Mean Value	Median Value	Max / Only Value
	Conductivity	μs/cm								
	Nitrate	mg/L	1							
	Nitrogen (total)	mg/L								
	Oil & Grease	mg/L								
	рН	рН								
	Phosphorous	mg/L	Special							
38	Reactive Phosphorous	mg/L	Frequency 3 - within 12							
(Flow Meter	TSS	mg/L	hours of							
Upstream)	Conductivity	μs/cm	discharge							
	Nitrate	mg/L	from any							
	Nitrogen (total)	mg/L	discharge							
	Oil & Grease	mg/L	location.							
	рН	рН								
	Phosphorous	mg/L								
	Reactive	mg/L								
	Phosphorous				N	o discharge occurre	ed at these location	ns in December 20	23	
	TSS	mg/L		=		o o				
	Conductivity	μs/cm	_							
	Nitrate	mg/L	_							
	Nitrogen (total)	mg/L	_							
	Oil & Grease	mg/L	4							
	pH	pH	Special							
	Phosphorous	mg/L	Frequency 3 -							
39	Reactive Phosphorous	mg/L	within 12 hours of							
(Flow Meter	TSS	mg/L	discharge							
downstream)	Conductivity	μs/cm	from any							
	Nitrate	mg/L	discharge							
	Nitrogen (total)	mg/L	location.							
	Oil & Grease	mg/L	iocation.							
	pH	pH	_							
	Phosphorous	mg/L	_							
	Reactive Phosphorous	mg/L								



	TSS	mg/L		
	TSS	mg/L	Special Frequency 2	
	Conductivity	μs/cm	prior todischarging	
40	Oil & Grease	mg/L	from EPL 45 and/or 46 or within	
(HWD8)	рН	рН	12hours of discharge caused by 38.4mm in a 5 Day consecutive period	
	TSS	mg/L		
	Conductivity	μs/cm	Special Frequency 2	
	Oil & Grease	mg/L	– prior todischargingfrom EPL 45	
41	рН	рН	and/or 46 or within	
(HWD9)	TSS	mg/L	12hours of discharge	
	Conductivity	μs/cm	caused by 38.4mm in a	No discharge occurred at these locations in December 2023
	Oil & Grease	mg/L	5 Day consecutive period Special Frequency 2	
	рН	рН		
	TSS	mg/L		
42 (HWD10)	Conductivity	μs/cm	prior to discharging	
	Oil & Grease	mg/L	from EPL 45 and/or 46 or	



				WHITEHAVEN
	рН	рН	within 12hours of discharge caused by 38.4mm in a 5 Day consecutive period	
	TSS	mg/L		
	Conductivity	μs/cm	Special Frequency 2	
	Oil & Grease	mg/L	– prior to discharging from EPL 45	
43	рН	рН	and/or 46 or within	
(HWD11)	TSS	mg/L	12hours of discharge	
	Conductivity	μs/cm	caused by 38.4mm in a 5 Day	
	Oil & Grease	mg/L	consecutive period	No discharge occurred at these locations in December 2023
	рН	рН	·	No discharge occurred at these locations in December 2025
	TSS	mg/L	Special Frequency 2	
	Conductivity	μs/cm	- prior to discharging	
44	Oil & Grease	mg/L	from EPL 45 and/or 46 or	
(WCWD)	рН	H pH 12ho	within 12hours of	
	TSS	mg/L	discharge caused by 38.4mm in a	
	Conductivity	μs/cm	5 Day	



Oil & Grease	mg/L	consecutive period
рН	рН	
рН	рН	
TSS	mg/L	
Oil & Grease	mg/L	
рН	mg/L	
TSS	рН	



Noise Monitoring

Table 6 - Noise Monitoring (Attended - Measured)

MCC ID	Date	Start Time	Wind Speed (m/s)	MCCP LAeq _{15min} dB	Limit L _{Aeq} _{15min} (dB) Operations Criteria	MCCP LAeq _{1min} dB	Limit L _{A1 (1 min)} (dB) Operations Criteria	Weather Rain (mm)	Exceedance (Yes / No)
NM1	11/12/2023	22:30	1.0	IA	35	IA	45	0.0	No
NM2	11/12/2023	23:30	<0.5	IA	39	IA	45	0.0	No
NM3	12/12/2023	00:20	<0.5	<20	35	<20	45	0.0	No
NM4	11/12/2023	23:00	3.7	IA	35	IA	45	0.0	No
NM5	11/12/2023	22:00	<0.5	IA	35	IA	45	0.0	No
NM6	11/12/2023	23:55	1.5	IA	35	IA	45	0.0	No

MCC ID = Locations as per the EPL No.20221.

ND = No data due to high prevailing winds during the attended noise monitoring event.

Italicised text indicates wind speed exceeds the 3.0m/s maximum for noise monitoring.

NM = Not Measurable. If site noise is noted as NM, <20 dB or <30 dB, this means some noise was audible but could not be quantified.

IA = Site noise was inaudible at the monitoring location.

N/A in exceedance column means criterion was not applicable due to atmospheric conditions outside those specified in the project approval.

Table 7 - Noise Monitoring (Attended - Low Frequency Assessment)

None of the measurements satisfied the conditions for further assessment when assessed for the applicability of low frequency modification factors in accordance with the EPA's Noise Policy for Industry. Therefore, no further assessment of low frequency noise was required to be undertaken.



Blast Monitoring

Table 8 - Blast Monitoring (Blasts - Limits Apply)

Location	Parameter	Units	Frequency	Number	Average	Max	100% Limit	Exceedance (Yes / No)
Operations	Overpressure	Db (Lin Peak)	ΔII	8	90.73	109	120	No
Blasts	Vibration	mm/s	All	8	0.10	0.41	10	No

Note: As of March 2018, in accordance with the requirements of the approved variation of EPL 20221; M7.1 blast monitoring results are for four blast monitoring points 31 (BM1), 32 (BM2), 33 (BM3) and 34 (BM4).



Air Quality Monitoring

Table 9 – PM_{10} (Limits Apply)

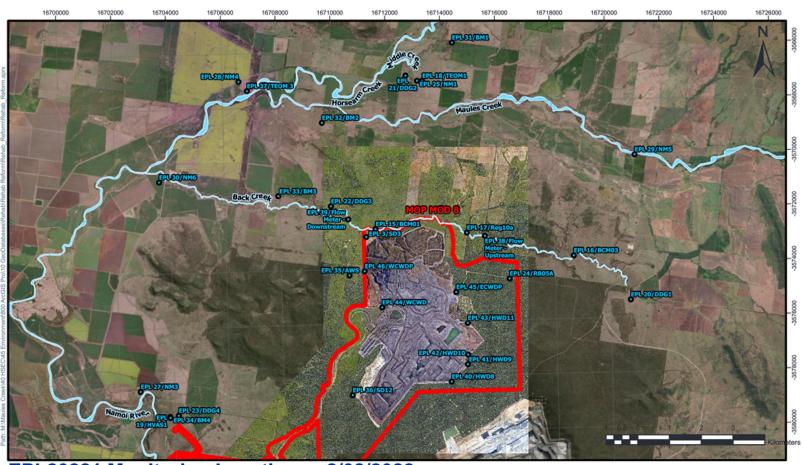
ID EPL (Site)	Sample period	Unit	Parameter	Rolling Annual Average	NEPM Annual Criteria	Exceedance (Yes / No)
18 (TEOM1)	Continuous	μg/m³ month	PM ₁₀	11.9	30	No
37 (TEOM3)	Continuous	μg/m³ month	PM ₁₀	14.2	30	No
19 (HVAS)	5 days	μg/m³	PM ₁₀	15.6	30	No

Table 10 – Depositional Dust (Limits Apply)

ID EPL (Site)	Sample period	Particulates Deposited Matter	Rolling Annual Average Insoluble Solids	Criteria	Exceedance (Yes / No)
20 (DDG1/MC1)	Monthly	g/m² month	1.7	4	No
21 (DDG2/MC2)	Monthly		2.0	4	No
22 (DDG3/MC3)	Monthly	g/m² month	2.5	4	No
23 (DDG4/MC4)	Monthly	g/m² month	1.1	4	No



Figure 1 – EPL 20221 Monitoring Locations



EPL20221 Monitoring Locations - 2/08/2022

Legend

EPL Monitoring locations

05 Project Boundary_Boundaries

MCCM Project Boundary (Mod 8)

Maules Creek Coal

Scale: 1:88,442 Author: shenanewman Date Exported: 16/09/2022 11:51 AM

Spatial Reference Name: GDA2020 MGA Zone 56



Disclaimer: Map for reference only and subject to survey. MCC makes no guarantee of the accuracy of this map and data within. MCC shall have no liability for any decisions made or actions taken based upon this map



Month of EPL Report:	Date of Original Publishing	Date Of Correction	Date of Republishing	Correction/s made
March 2023	19/04/2023	11/01/2024	11/01/2024	Table 5 amended
				Data entered was incorrect, updated to reflect
				correct data
April 2023	16/05/2023	11/01/2024	11/01/2024	Table 5 amended
				Data entered amended to reflect correct
				monitoring location.